Robinson+Cole

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Also admitted in Massachusetts
and New York

October 27, 2021

Via Electronic Mail

Melanie A. Bachman, Esq.
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Notice of Exempt Modification – Facility Modification**
146 Brown Road (a/k/a 159 Brown Road), Brooklyn, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the above-referenced property address (the "Property"). The facility consists of antennas and remote radio heads attached to and associated equipment on the ground adjacent to the tower. The tower was approved by the Siting Council ("Council") in January of 2004 (Docket No. 264). Cellco's shared use of the tower was approved by the Council in April of 2007 (EM-VER-019-070328). A copy of the Council's Docket No. 264 Decision and Order and EM-VER-019-070328 approval are included in Attachment 1.

Cellco now intends to modify its facility by removing six (6) existing antennas and installing three (3) new Samsung MT6407-77A antennas and six (6) MX06FRO660-03 antennas on Cellco's existing antenna platform. Cellco also intends to replace six (6) remote radio heads ("RRHs") with six (6) new RRHs behind its antennas. A set of project plans showing Cellco's proposed facility modifications and specifications for the new antennas and RRHs are included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Brooklyn's Chief Elected Official and Land Use Officer.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas will be installed on Cellco's existing antenna platform.

2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna mounts, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 6.

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Kenneth C. Baldwin

Enclosures
Copy to:

Richard Ives, Brooklyn First Selectman
Jana Butts Roberson, Director of Community Development/Town Planner
Richard and Cynthia Perkins, Property Owners
Alex Tyurin, Verizon Wireless

ATTACHMENT 1

Connecticut Siting Council(/CSC)

Decisions (/CSC/Decisions/Decisions) >

Meetings and Minutes (/CSC/Common-Elements/v4-template/Council-Activity) >

Pending Matters (/CSC/1_Applications-and-Other-Pending-Matters/Pending-Matters) >

About Us (/CSC/Common-Elements/Common-Elements/Connecticut-Siting-Council---Description) >

Contact Us (/CSC/Common-Elements/Common-Elements/Contact-Us) >

Search Connecticut Siting Council

DOCKET NO. 264 - National Grid Communications, Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a wireless telecommunications facility at either 146 Brown Road or Brown Road (Lot 34) Brooklyn, Connecticut.	}	Connecticut
	}	Siting
	}	Council
		January 12, 2004

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes **§** 16-50k, be issued to Tower Ventures II, LLC for the construction, maintenance and operation of a wireless telecommunications facility at Site A-2, located at Lot 34, Brown Road, Brooklyn, Connecticut. The Council denies certification of Site A-1 located at 146 Brown Road, Brooklyn, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of Omnipoint Holdings d/b/a T-Mobile, AT&T Wireless PCS LLC, Quinebaug Valley Emergency Communications, Inc. and other entities, both public and private, but such tower shall not exceed a height of 150 feet above ground level.

2. The compound site shall be moved approximately 75 feet to the south.

3. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include:

a) a detailed site development plan that depicts the location of the access road, compound, tower, utility line, erosion and sedimentation control features, extent of site clearing and grading, and landscaping. Erosion and sedimentation controls shall be consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended; and

b) specifications for the tower, tower foundation, antennas, equipment building, and security fence.

4. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case

modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

5. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

6. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. The Certificate Holder shall provide reasonable space on the tower for no compensation for any municipal antennas, provided tower space is available and such antennas are compatible with the structural integrity of the tower.

7. If the facility does not initially provide wireless services within one year of completion of construction or ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

8. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and cease to function.

9. Unless otherwise approved by the Council, this Decision and Order shall be void if the facility authorized herein is not operational within one year of the effective date of this Decision and Order or within one year after all appeals to this Decision and Order have been resolved.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Hartford Courant and the Norwich Bulletin.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors to this proceeding are:

Applicant	**Its Representative**
Tower Ventures II, LLC.	Scott T. Penner, Esq. Hurwitz & Sagarin, LLC 147 N. Broad Street Milford, CT 06460
Intervenor	**Its Representative**
Omnipoint Facilities Network 2, L.L.C., A Subsidiary of T-Mobile, USA, Inc.	Stephen J. Humes, Esq. LeBoeuf, Lamb, Greene & MacRae, L.L.P. Goodwin Square 225 Asylum Street Hartford, CT 06103

Intervenor	**Its Representative**
AT&T Wireless PCS, LLC	Christopher B. Fisher, Esq.
d/b/a AT&T Wireless	Cuddy & Feder LLP
	90 Maple Avenue
	White Plains, New York 10601

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
Internet: ct.gov/csc

Daniel F. Caruso
Chairman

April 16, 2007

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

RE: **EM-VER-019-070328** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at Brown Road, Brooklyn, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on April 10, 2007, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated March 28, 2007, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

Daniel F. Caruso
Chairman

DFC/MP/laf

G:\EM\BAM-VERIZON\BROOKLYN\dc041007.DOC

c: The Honorable Roger Engle, First Selectman, Town of Brooklyn
Chester Dobrowski, Zoning Enforcement Officer, Town of Brooklyn
National Grid
Christopher B. Fisher, Esq., Cuddy & Feder LLP
Christine Farrell, T-Mobile

ATTACHMENT 2

verizon

DANIELSON WEST CT
146 BROWN ROAD
BROOKLYN, CT 06234

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2018 CONNECTICUT SUPPLEMENT, INCLUDING THE TIA/EIA-222 REVISION "G" STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES, 2017 CONNECTICUT FIRE SAFETY CODE, NATIONAL ELECTRICAL CODE, AND LOCAL CODES.
2. SHOULD ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
3. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUBCONTRACTORS AND ALL RELATED PARTIES. THE SUBCONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
4. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON THE DRAWINGS OR IN THE WRITTEN SPECIFICATIONS.
5. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
6. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, AND ALL TRADES AS APPLICABLE PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
7. CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN "AS-BUILT" SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
8. LOCATION OF EQUIPMENT, AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE LOCATIONS AND DIMENSIONS SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF THE SUBCONTRACTORS.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING BUILDING'S/PROPERTY'S OPERATIONS, COORDINATE WORK WITH BUILDING/PROPERTY OWNER.
10. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
11. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
12. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER MFR.'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
13. ANY AND ALL ERRORS, DISCREPANCIES, AND "MISSED" ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER DURING THE BIDDING PROCESS BY THE CONTRACTOR. ALL THESE ITEMS ARE TO BE INCLUDED IN THE BID. NO "EXTRA" WILL BE ALLOWED FOR MISSED ITEMS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE SAFETY FROM THE TIME THE JOB IS AWARDED UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
15. CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE CONSTRUCTION MANAGER FOR REVIEW.
16. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES, AND EXISTING CONDITIONS AT THE SITE, PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.
17. COORDINATION, LAYOUT, FURNISHING AND INSTALLATION OF CONDUIT AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
18. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB- CONTRACTORS FOR ANY CONDITION PER THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
19. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
20. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS AT 1-800-922-4455. ALL UTILITIES SHALL BE IDENTIFIED AND CLEARLY MARKED PRIOR TO ANY EXCAVATION WORK. CONTRACTOR SHALL MAINTAIN AND PROTECT MARKED UTILITIES THROUGHOUT PROJECT COMPLETION.

SITE DIRECTIONS

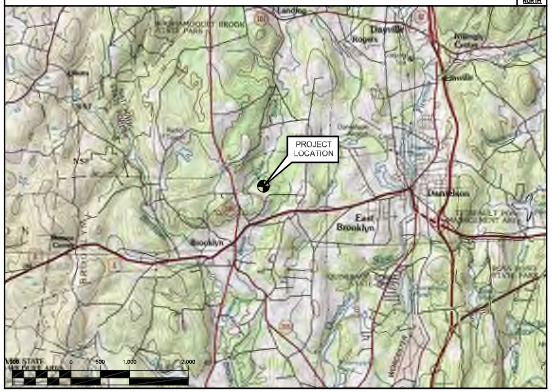
FROM: 20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT

TO: 146 BROWN RD.
BROOKLYN, CT 06234

1.	START OUT GOING NORTH ON ALEXANDER DR TOWARD BARNES INDUSTRIAL RD.	0.18 MI
2.	TURN RIGHT ONTO BARNES INDUSTRIAL RD.	0.11 MI
3.	TAKE FIRST LEFT ONTO CT-68.	0.35 MI
4.	TURN RIGHT ONTO RAMP.	0.17 MI
5.	TURN RIGHT ONTO N COLONY RD/US-5 N.	0.30 MI
6.	MERGE ONTO CT-15 N TOWARD HARTFORD.	3.58 MI
7.	MERGE ONTO I-91 N VIA EXIT 68N-E TOWARD MIDDLETOWN/HARTFORD/CT-66 E.	13.95 MI
8.	MERGE ONTO CT-3 N VIA EXIT 25 TOWARD GLASTONBURY.	2.35 MI
9.	MERGE ONTO CT-2 E TOWARD NORWICH.	10.96 MI
10.	TAKE THE CT-66 EXIT, EXIT 13, TOWARD WILLIMANTIC/MARLBOROUGH.	0.24 MI
11.	KEEP LEFT TO TAKE THE RAMP TOWARD WILLIMANTIC/HEBRON.	0.04 MI
12.	TURN LEFT ONTO HEBRON RD/CT-66. CONTINUE TO FOLLOW CT-66.	11.80 MI
13.	CT-66 BECOMES US-6 E.	5.32 MI
14.	MERGE ONTO US-6 E TOWARD DANIELSON/WINDHAM AIRPORT/PROVIDENCE.	14.79 MI
15.	TURN SLIGHT LEFT ONTO BROWN RD.	0.59 MI
16.	146 BROWN RD, BROOKLYN, CT 06234-1544, 146 BROWN RD IS ON THE LEFT.	

VICINITY MAP

SCALE: 1" = 1000'



PROJECT SUMMARY

1. THE PROPOSED UPGRADE SCOPE OF WORK AT THE EXISTING UNMANNED TELECOMMUNICATIONS FACILITY GENERALLY INCLUDES THE FOLLOWING:

A. AT THE EXISTING MONOPOLE MOUNTED ANTENNA SECTORS:

- REMOVE (6) EXISTING ANDREW – SBNHH-1D65B ANTENNAS.
- REMOVE (6) EXISTING NOKIA RADIOS.
- RETAIN (6) EXISTING ANTEL – LPA-80080/6CF ANTENNAS.
- RETAIN (6) EXISTING 1-5/8" CDMA COAXIAL CABLES.
- RETAIN (2) EXISTING 6x12 HYBRIFLEX CABLES.
- RETAIN (2) EXISTING OVP-6 BOXES.
- INSTALL (3) SAMSUNG – MT6407-77A ALL-IN-ONE ANTENNA/ RRUs.
- INSTALL (6) JMA – MX06FRO660-02 ANTENNAS.
- INSTALL (3) SAMSUNG – RF4439d-25A RRUs.
- INSTALL (3) SAMSUNG – RF4440d-13A RRUs.
- INSTALL (3) JMA – 91900314-02 ANTENNA MOUNTS.

PROJECT INFORMATION

SITE NAME:	DANIELSON WEST CT
SITE ADDRESS:	146 BROWN RD. BROOKLYN, CT 06234
LESSEE/TENANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 20 ALEXANDER DRIVE WALLINGFORD, CT 06492
CONTACT PERSON:	WALTER CHARCZNSKI (CONSTRUCTION MANAGER) VERIZON WIRELESS (860) 306-1806
ENGINEER:	CENTEK ENGINEERING, INC. 63-2 NORTH BRANFORD RD. BRANFORD, CT. 06405 (203) 488-0580
PROJECT COORDINATES:	LATITUDE: 41°-47'-54.11" N LONGITUDE: 71°-56'-9.21" W COORDINATES BASED ON VERIZON WIRELESS RFDS, DATED JULY 27, 2021.

SHEET INDEX

SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	0
N-1	NOTES AND SPECIFICATIONS	0
B-1	RF BILL OF MATERIALS	0
C-1	COMPOUND PLAN AND ELEVATION	0
C-2	ANTENNA SECTOR CONFIGURATION DETAILS	0
C-3	RF DETAILS	0
E-1	ELECTRICAL DETAILS AND SPECIFICATIONS	0

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	05/07/21	ANC	DMD	CONSTRUCTION DRAWINGS – ISSUED FOR CONSTRUCTION
0	10/12/21	ANC	DMD	CONSTRUCTION DRAWINGS – ISSUED FOR CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

verizon

CENTEK engineering
Centered on Solutions
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless

DANIELSON WEST CT
146 BROWN ROAD
BROOKLYN, CT 06234

DATE: 10/12/21
SCALE: AS NOTED
JOB NO. 21007.46

TITLE SHEET

T-1

Sheet No. 1 of 7

NOTES AND SPECIFICATIONS

DESIGN BASIS:

GOVERNING CODE: 2015 INTERNATIONAL BUILDING (IBC) AS MODIFIED BY THE 2018 CT STATE BUILDING CODE AND AMENDMENTS.

1. DESIGN CRITERIA:

- RISK CATEGORY: II (BASED ON TABLE 1604.5 OF THE 2015 IBC)
- NOMINAL DESIGN SPEED (TOWER): 101 MPH (Vasd) (EXPOSURE B/IMPORTANCE FACTOR 1.0 BASED ON ASCE 7-10) PER 2015 INTERNATIONAL BUILDING CODE (IBC) AS MODIFIED BY THE 2018 CONNECTICUT STATE BUILDING CODE.
- SEISMIC LOAD (DOES NOT CONTROL): PER ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE GOVERNING BUILDING CODE.
2. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
3. BEFORE BEGINNING THE WORK, THE CONTRACTOR IS RESPONSIBLE FOR MAKING SUCH INVESTIGATIONS CONCERNING PHYSICAL CONDITIONS (SURFACE AND SUBSURFACE) AT OR CONTIGUOUS TO THE SITE WHICH MAY AFFECT PERFORMANCE AND COST OF THE WORK.
4. DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST EXISTING FIELD CONDITIONS.
5. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.
6. ALL DIMENSIONS, ELEVATIONS, AND OTHER REFERENCES TO EXISTING STRUCTURES, SURFACE, AND SUBSURFACE CONDITIONS ARE APPROXIMATE. NO GUARANTEE IS MADE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS, ELEVATIONS, ANGLES WITH EXISTING CONDITIONS AND WITH ARCHITECTURAL AND SITE DRAWINGS BEFORE PROCEEDING WITH ANY WORK.
7. AS THE WORK PROGRESSES, THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONDITIONS WHICH ARE IN CONFLICT OR OTHERWISE NOT CONSISTENT WITH THE CONSTRUCTION DOCUMENTS AND SHALL NOT PROCEED WITH SUCH WORK UNTIL THE CONFLICT IS SATISFACTORILY RESOLVED.
8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE SHORING, BRACING, AND BARRICADES AS MAY BE REQUIRED FOR THE PROTECTION OF EXISTING PROPERTY, CONSTRUCTION WORKERS, AND FOR PUBLIC SAFETY.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING SITE OPERATIONS, COORDINATE WORK WITH NORTHEAST UTILITIES
10. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
11. REFER TO DRAWING T1 FOR ADDITIONAL NOTES AND REQUIREMENTS.

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	05/07/21	ANC	DMD	CONSTRUCTION DRAWINGS – ISSUED FOR CONSTRUCTION
B	10/12/21	ANC	DMD	CONSTRUCTION DRAWINGS – ISSUED FOR CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

verizon

CENTEK engineering
Centered on Solutions
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless

DANIELSON WEST CT

146 BROWN ROAD
BROOKLYN, CT 06234

DATE: 10/12/21
SCALE: AS NOTED
JOB NO. 21007.46

NOTES AND SPECIFICATIONS

N-1

Sheet No. 2 of 7

PLUMBING DIAGRAM NOTES:

1. PORTS 1 & 2 ARE FOR LOW BAND (698–896 MHz).
2. PORTS 3, 4, 5 & 5 ARE FOR HIGH BAND (1695–2360 MHz).
3. SMART BIAS TEE (SBT) IS THROUGH ANTENNA PORTS 1 & 3 (1 FOR LOW BAND AND 3 FOR HIGH BAND).
4. AISG CABLE IS ONLY NEEDED WHEN DRAWN IN THE DIAGRAMS ABOVE. IF IT IS NOT DRAWN THEN SBT IS ENOUGH TO CONTROL ALL RET MOTORS.
5. NOT ALL SBT PORTS ARE NEEDED TO CONTROL RET. ONLY GREEN PORT CONNECTION TO GREEN PORT WILL CONTROL RET.

PLUMBING DIAGRAM COMMENTS:

A. DIAGRAMS SHOW ANTENNA PORT CONFIGURATIONS AS VIEWED FROM BELOW ANTENNAS.

B. ANTENNA POSITIONS ARE INDICATED AS VIEWED FROM IN FRONT OF ANTENNAS.

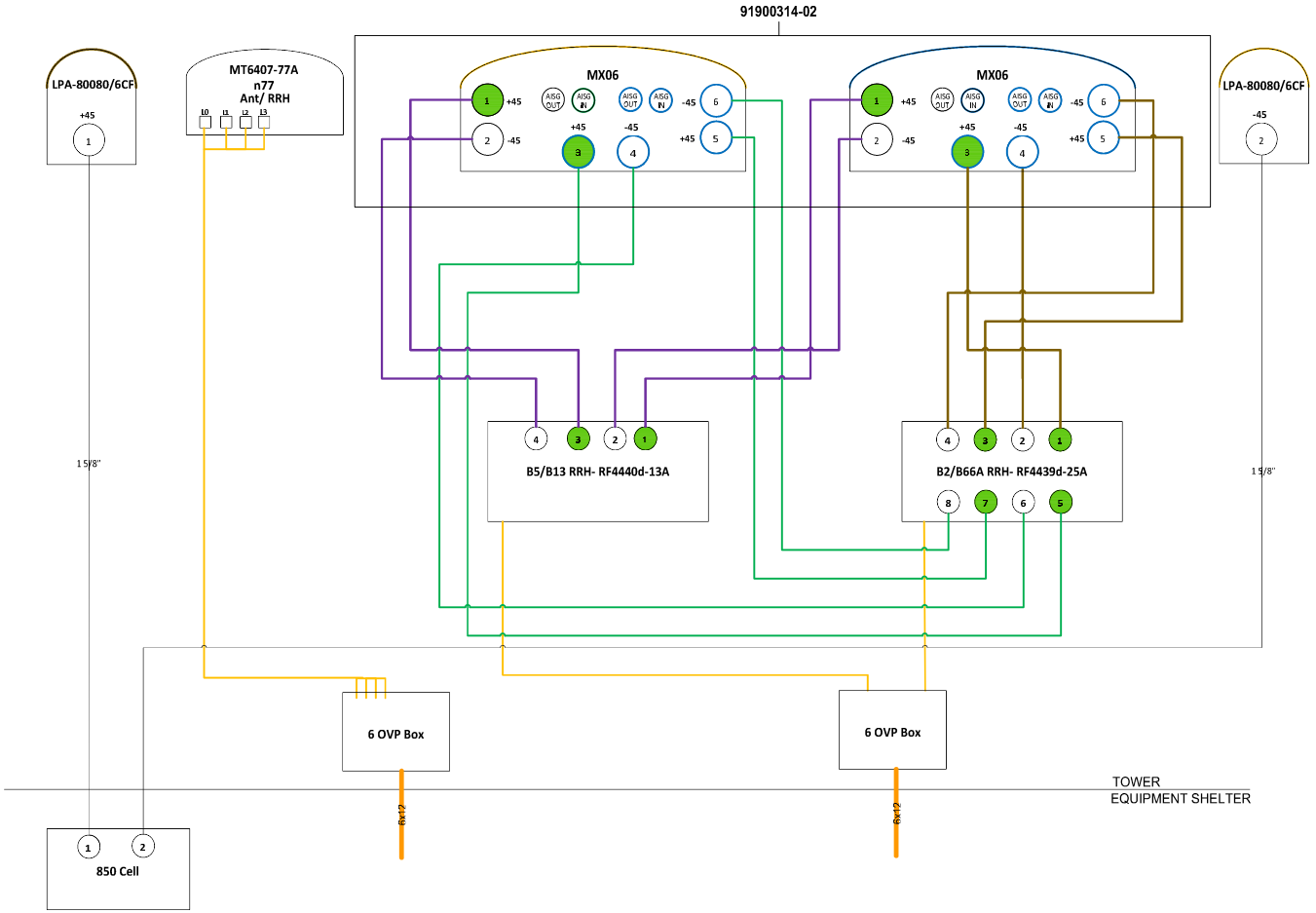
C. CAP AND WEATHERPROOF UNUSED ANTENNA PORTS.

D. ALL PLUMBING DIAGRAM COLORS ARE IRRELEVANT EXCEPT FOR AISG AND HYBRIFLEX CABLE. (FOR THE COAX COLORS, FOLLOW COAX COLORS GUIDE ABOVE)

DC SIGNAL CAPABLE PORT

AISG CABLE

RET DC SIGNAL PASS FOR RET (PORT THAT WILL CONTROL RET)



NOTES:

1. INFORMATION SHOWN HEREIN IS FOR USE BY VERIZON WIRELESS EQUIPMENT OPERATIONS.
2. THIS B.O.M. DRAWING IS BASED OFF FACILITY UPGRADE DESIGN DRAWINGS PREPARED BY CENTEK ENGINEERING (REV.0 DATED: 10.12.21), & VERIZON WIRELESS RF ANTENNA EQUIPMENT RECOMMENDATION (DATED 07.27.21).

BILL OF MATERIALS		
TECHNOLOGY	QUANTITY	ANTENNA
LTE 700	6	JMA ANTENNA MODEL: MX06FRO660-02
LTE 850		
LTE PCS 1900		
LTE AWS 2100		
5G	3	SAMSUNG ANTENNA MODEL: MT6407-77A

CABLES	QUANTITY	LENGTH	COMMENTS
–	0	–	–

RADIOS	QUANTITY	COMMENTS
LTE 700	3	SAMSUNG MODEL: RF4440d-13A
LTE 850		
LTE PCS 1900	3	SAMSUNG MODEL: RF4439d-25A
LTE AWS 2100		
5G	3	INTEGRATED INTO MT6407-77A ANTENNA

DIPLEXERS	QUANTITY	COMMENTS
–	0	–

OVP BOXES	QUANTITY	COMMENTS
RAYCAP OVP-12 BOX	1	RAYCAP MODEL: DB-C1-12C-24AB-0Z

ANTENNA MOUNT	QUANTITY	COMMENTS
JMA ANTENNA MOUNT	3	JMA MODEL: 91900314-02

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	10/12/21	ANC	DMD	CONSTRUCTION DRAWINGS – ISSUED FOR CONSTRUCTION
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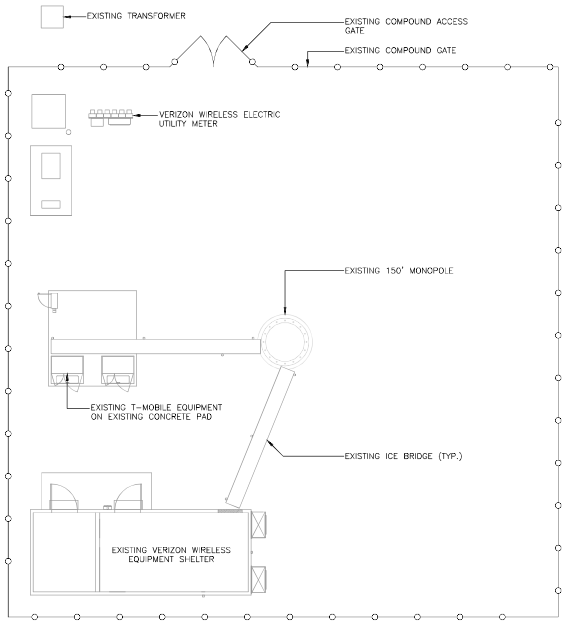
RF BILL OF MATERIALS

B-1

Sheet No. 3 of 7

STRUCTURAL NOTE:

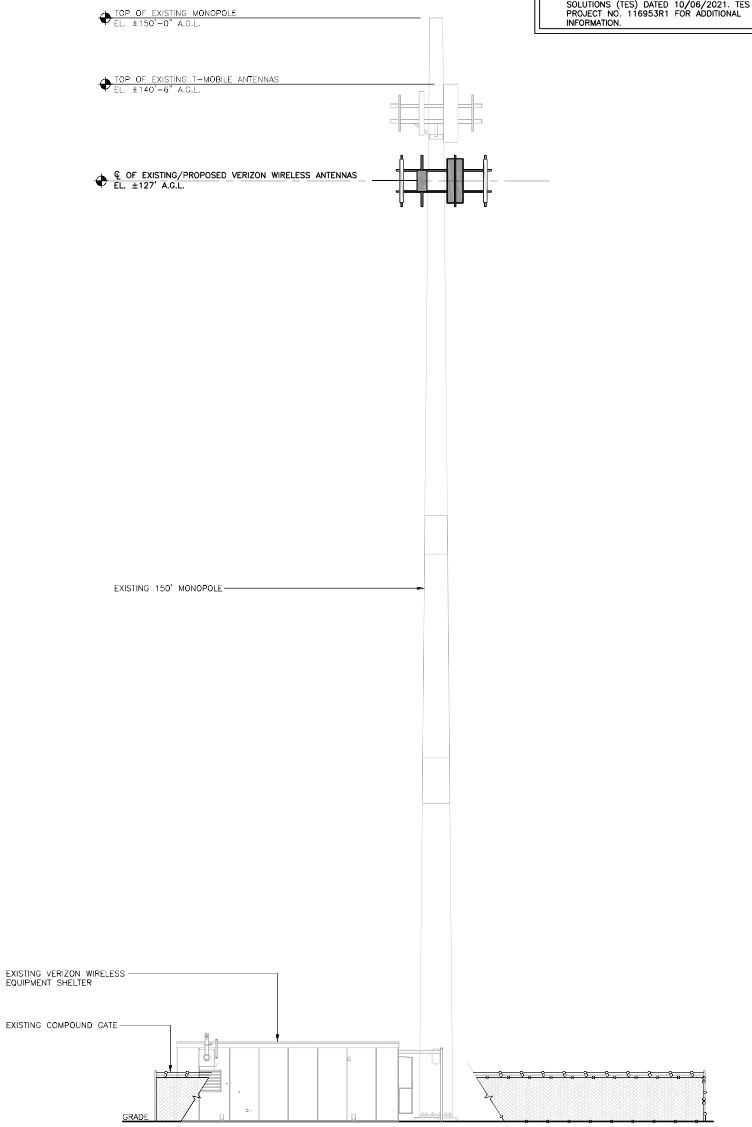
1. REFER TO PASSING TOWER STRUCTURAL ANALYSIS REPORT PREPARED BY TOWER ENGINEERING SOLUTIONS (TES) DATED 10/06/2021. TES PROJECT NO. 116953R1 FOR ADDITIONAL INFORMATION.



2 / C-1

1 / C-1 **COMPOUND PLAN**
SCALE: 1/8" = 1'

APPROXIMATE NORTH



2 / C-1 **PARTIAL SOUTH ELEVATION - PROPOSED**
SCALE: 1" = 8'

GRAPHIC SCALE
0 4 8 16 32
(IN FEET)
1 inch = 8 ft.

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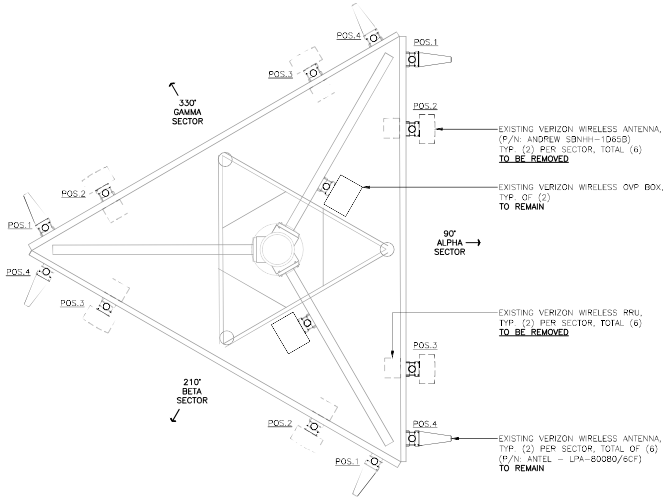
COMPOUND PLAN AND ELEVATION

C-1

Sheet No. 4 of 7

EXISTING ANTENNA CONFIGURATIONS



1 C-2 **EXISTING SECTOR CONFIGURATION PLAN**
SCALE: 1/2" = 1'-0"

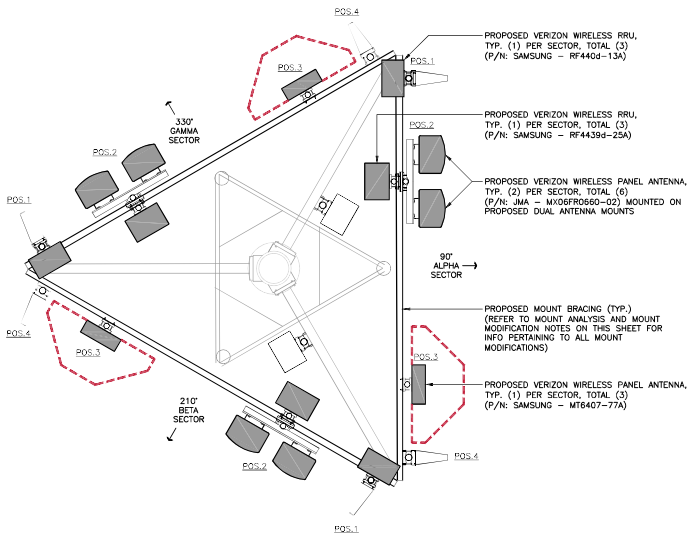
APPROXIMATE NORTH

PROPOSED ANTENNA CONFIGURATIONS

LEGEND	
– – –	VERIZON WIRELESS MT6407-77A REQUIRED ANTENNA CLEARANCE LIMITS (PER DETAILS ON SHEET C-3)
ANTENNA CLEARANCE STATUS	ALPHA SECTOR: COMPLIANT BETA SECTOR: COMPLIANT GAMMA SECTOR: COMPLIANT

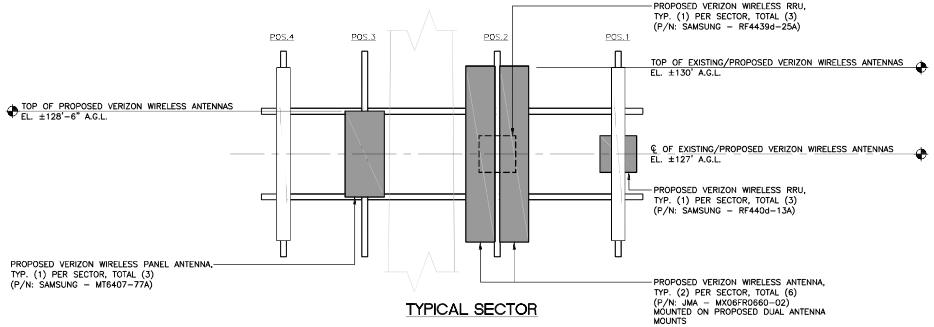
ANTENNA MOUNT ANALYSIS AND MOD NOTES:

1. REFER TO PASSING VERIZON WIRELESS MOUNT ANALYSIS REPORT PREPARED BY MASER CONSULTING CONNECTICUT DATED 08/16/2021 FOR ADDITIONAL INFORMATION.
2. REFER TO FINAL VERIZON WIRELESS MOUNT MODIFICATION DESIGN PREPARED BY MASER CONSULTING CONNECTICUT DATED 08/16/2021 FOR ANTENNA MOUNT MODIFICATIONS.



2 C-2 **PROPOSED SECTOR CONFIGURATION PLAN**
SCALE: 1/2" = 1'-0"

APPROXIMATE NORTH



TYPICAL SECTOR

2A C-2 **PROPOSED SECTOR CONFIGURATION ELEVATION**
SCALE: 1/2" = 1'-0"

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
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ANTENNA SECTOR CONFIGURATION DETAILS

C-2
Sheet No. 5 of 7

ANTENNA FRONT

ALL-IN-ONE SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: MT6407-77A	35.1"h x 16.1"W x 5.5"D (NOT TO EXCEED)	87 LBS. (NOT TO EXCEED)
CLEARANCES AND SERVICE AREA		
TOP: 31.5"	HORIZONTAL DISTANCE: (ANT. TO ANT.) 31.5"	
FRONT, SIDES & BOTTOM: 15.7"	VERTICAL DISTANCE: (ANT. TO ANT.) 63.0"	
NOTES: 1. THIS ANTENNA HAS ITS OWN BUILT-IN RRH.		

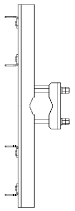
1 / C-3 **ALL-IN-ONE SECTOR ANTENNA DETAIL**
NOT TO SCALE

ELEVATION - ISOMETRIC

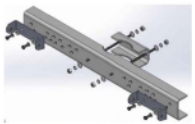
BOTTOM

8-PORT SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: JMA MODEL: MX06FRO660-02	71.3"L x 15.4"W x 10.7"D	57.0 LBS. (W/OUT MOUNT KIT)

2 / C-3 **SECTOR ANTENNA DETAIL**
NOT TO SCALE



PLAN VIEW



ANTENNA MOUNT ISOMETRIC

DUAL ANTENNA MOUNTING KIT	
EQUIPMENT	DESCRIPTION
MOUNT MAKE: JMA MODEL: 919003314	• SIDE-BY-SIDE MOUNTING KIT, ACCOMMODATES (2) COMPATABLE ANTENNAS • 2 BRACKETS REQUIRED FOR 4'-6' ANTENNAS • 3 BRACKETS REQUIRED FOR 6'-8' ANTENNAS

3 / C-3 **DUAL ANTENNA MOUNT DETAIL**
NOT TO SCALE

RRH - ISOMETRIC

DUAL BAND RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BANDS	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: RF4439d-25A	B25: PCS (1900 MHz) B66: AWS (2100 MHz)	15.0"H x 15.0"W x 10.0"D	74.7 LBS.
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.			

4 / C-3 **DUAL-BAND AWS/PCS MACRO RADIO UNIT DETAIL**
NOT TO SCALE

RRH - ISOMETRIC

DUAL BAND RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BANDS	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: RF440d-13A	B5: 850 MHz B13: 700 MHz	15.0"H x 15.0"W x 9.0"D	70.3 LBS.
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.			

5 / C-3 **DUAL-BAND 700/850 MHZ MACRO RADIO UNIT DETAIL**
NOT TO SCALE

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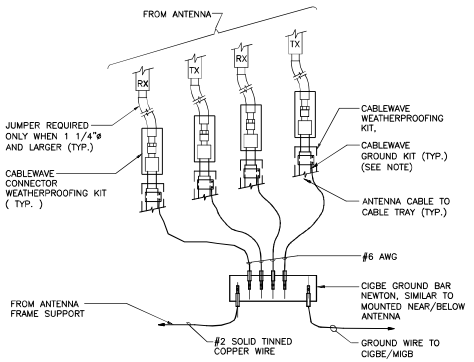
RF DETAILS

C-3
Sheet No. 6 of 7



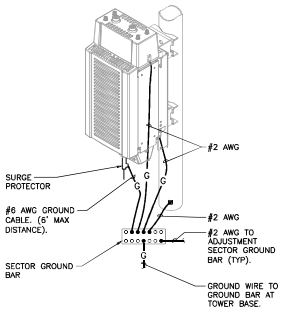
NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE

1 E-1 CONNECTION OF GROUND WIRES TO GROUND BAR

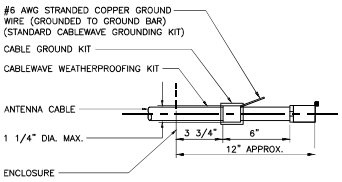
NOT TO SCALE

EACH RRH CABINET SHALL BE GROUNDED IN THE FOLLOWING MANNER:



2 E-1 RRH POLE MOUNT GROUNDING

NOT TO SCALE

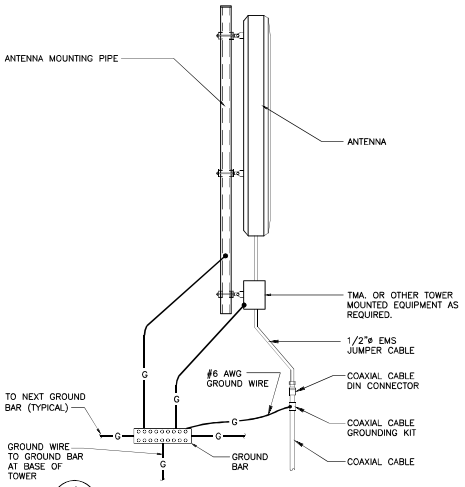


NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

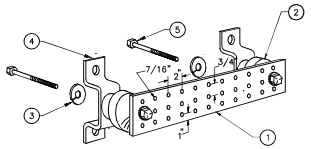
3 E-1 ANTENNA CABLE GROUNDING DETAIL

NOT TO SCALE



4 E-1 TYPICAL ANTENNA GROUNDING DETAIL

NOT TO SCALE



NOTES

1. TINNED COPPER GROUND BAR, 1/4" x 4" x 20", NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4.
3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8.
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056.
5. 5/8-11 x 1" STAINLESS STEEL TRUSS SPANNER MACHINE SCREWS.

5 E-1 GROUND BAR DETAIL

NOT TO SCALE

ELECTRICAL SPECIFICATIONS

SECTION 16010

1.01. SCOPE OF WORK

A. WORK SHALL INCLUDE ALL LABOR, EQUIPMENT AND SERVICES REQUIRED TO COMPLETE (MAKE READY FOR OPERATION) ALL THE ELECTRICAL WORK INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

1. CELLULAR GROUNDING SYSTEMS CONSISTING OF ANTENNA GROUNDING, GROUND BARS, ETC.

1.02. GENERAL REQUIREMENTS

A. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE MADE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES AND REGULATIONS WHICH MAY APPLY AND NOTHING IN THE DRAWINGS OR SPECIFICATIONS SHALL BE INTERPRETED AS AN INFRINGEMENT OF SUCH CODES OR REGULATIONS.

B. THE ELECTRICAL CONTRACTOR IS TO BE RESPONSIBLE FOR THE COMPLETE INSTALLATION AND COORDINATION OF THE ENTIRE ELECTRICAL SERVICE. ALL ACTIVITIES TO BE COORDINATED THROUGH OWNERS REPRESENTATIVE, DESIGN ENGINEER AND OTHER AUTHORITIES HAVING JURISDICTION OF TRADES.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND PAY ALL FEES THAT MAY BE REQUIRED FOR THE ELECTRICAL WORK AND FOR SCHEDULING OF ALL INSPECTIONS THAT MAY BE REQUIRED BY THE LOCAL AUTHORITY.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE BUILDING OWNER FOR NEW AND/OR DEMOLITION WORK INVOLVED.

E. NO MATERIAL OTHER THAN THAT CONTAINED IN THE "LATEST LIST OF ELECTRICAL FITTINGS" APPROVED BY THE UNDERWRITERS' LABORATORIES, SHALL BE USED IN ANY PART OF THE WORK. ALL MATERIAL FOR WHICH LABEL SERVICE HAS BEEN ESTABLISHED SHALL BEAR THE U.L. LABEL.

F. THE CONTRACTOR SHALL GUARANTEE ALL NEW WORK FOR A PERIOD OF ONE YEAR FROM THE ACCEPTANCE DATE BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WARRANTIES FROM ALL EQUIPMENT MANUFACTURERS FOR SUBMISSION TO THE OWNER.

G. DRAWINGS INDICATE GENERAL ARRANGEMENT OF WORK INCLUDED IN CONTRACT. CONTRACTOR SHALL WITHOUT EXTRA CHARGE, MAKE MODIFICATIONS TO THE LAYOUT OF THE WORK TO PREVENT CONFLICT WITH WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF WORK. CHECK ALL DRAWINGS AND VISIT JOB SITE TO VERIFY SPACE AND TYPE OF EXISTING CONDITIONS IN WHICH WORK WILL BE DONE, PRIOR TO SUBMITTAL OF BID.

H. THE ELECTRICAL CONTRACTOR SHALL SUPPLY THREE (3) COMPLETE SETS OF APPROVED DRAWINGS, ENGINEERING DATA SHEETS, MAINTENANCE AND OPERATING INSTRUCTION MANUALS FOR ALL SYSTEMS AND THEIR RESPECTIVE EQUIPMENT. THESE MANUALS SHALL BE INSERTED IN VINYL COVERED 3-RING BINDERS AND TURNED OVER TO OWNER'S REPRESENTATIVE ONE (1) WEEK PRIOR TO FINAL PUNCH LIST.

I. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND WILL BE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.

J. ALL EQUIPMENT AND MATERIALS TO BE INSTALLED SHALL BE NEW, UNLESS OTHERWISE NOTED.

K. BEFORE FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF PRINTS (AS-BUILTS), LEGIBLY MARKED IN RED PENCIL TO SHOW ALL CHANGES FROM THE ORIGINAL PLANS.

L. ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH OWNER'S SPECIFICATIONS, AND REQUIREMENTS OF ALL LOCAL AUTHORITIES HAVING JURISDICTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH APPROPRIATE INDIVIDUALS TO OBTAIN ALL SUCH SPECIFICATIONS AND REQUIREMENTS. NOTHING CONTAINED IN, OR OMITTED FROM, THESE DOCUMENTS SHALL RELIEVE CONTRACTOR FROM THIS OBLIGATION.

SECTION 16450

1.01. GROUNDING

A. ALL NON-CURRENT CARRYING PARTS OF THE ELECTRICAL AND TELEPHONE CONDUIT SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONNECTED TO PROVIDE AN INDEPENDENT RETURN PATH TO THE EQUIPMENT GROUNDING SOURCES.

B. GROUNDING SYSTEM WILL BE IN ACCORDANCE WITH THE LATEST ACCEPTABLE EDITION OF THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS PER LOCAL INSPECTOR HAVING JURISDICTION.

C. EQUIPMENT GROUNDING CONDUCTOR:

1. EACH EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. ARTICLE 250-122.

2. THE MINIMUM SIZE OF EQUIPMENT GROUND CONDUCTOR SHALL BE #12 AWG COPPER.

D. CELLULAR GROUNDING SYSTEM:

PROVIDE THE CELLULAR GROUNDING SYSTEM AS SPECIFIED ON DRAWINGS, INCLUDING, BUT NOT LIMITED TO:

1. GROUND BARS
2. ANTENNA GROUND CONNECTIONS AND PLATES.

E. ALL EQUIPMENT SHALL BE BONDED TO GROUND AS REQUIRED BY N.E.C., MFG. SPECIFICATIONS, AND OWNER'S SPECIFICATIONS.

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ELECTRICAL DETAILS AND SPECIFICATIONS

E-1

Sheet No. 7 of 7

SAMSUNG

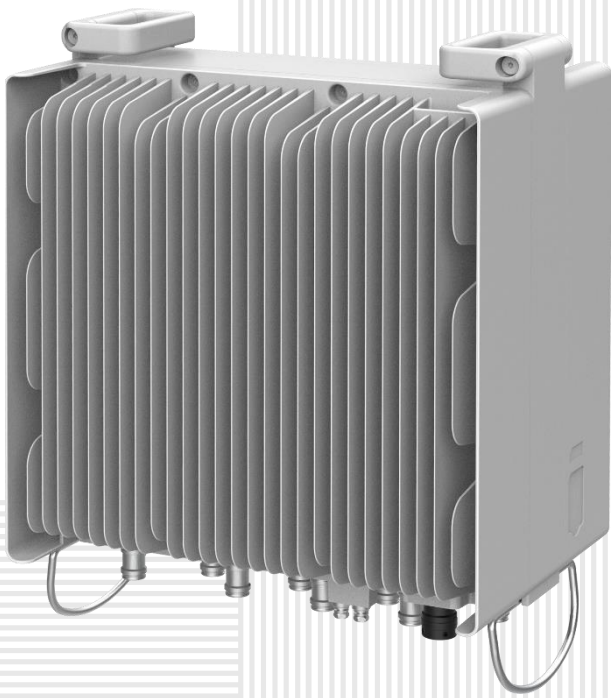
AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

57196

Model Code	RF4439d-25A



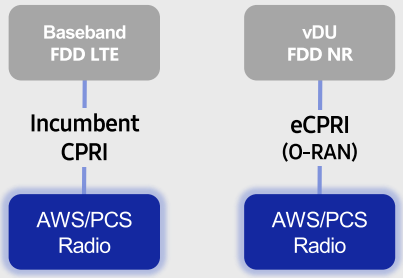
Homepage
samsungnetworks.com

Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

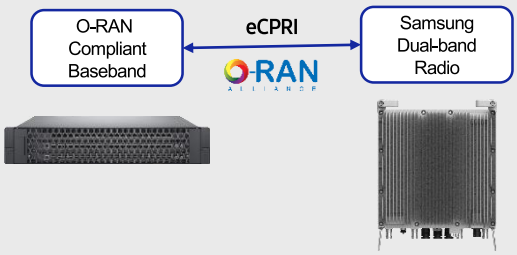
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help in implementing cost-effective networks, which are capable of sending more data without compromising additional investments.

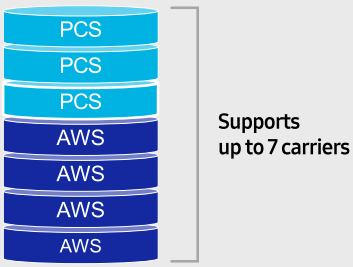
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

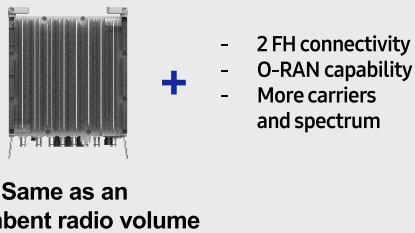
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb

SAMSUNG

700/850MHZ MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code	RF4440d-13A

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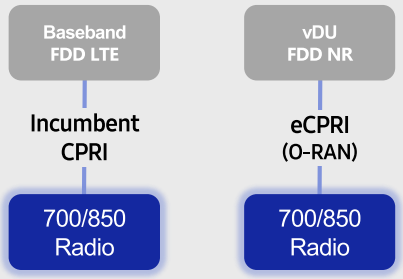

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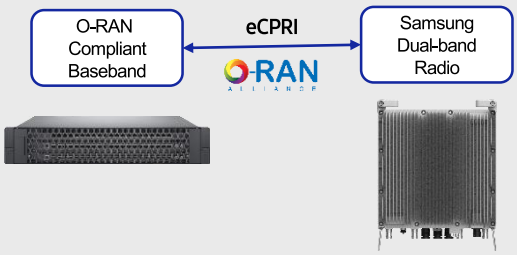
A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

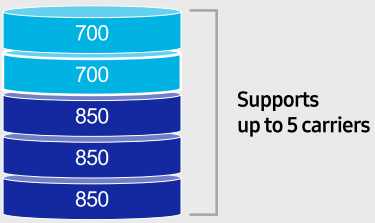
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

The number of required carriers varies according to site (region). The ability to support many carriers is essential for using all frequencies that the operator has available.

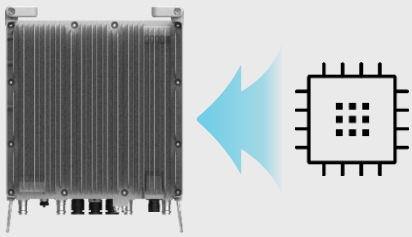
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



Secured Integrity

Access to sensitive data is allowed only to authorized software.

The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

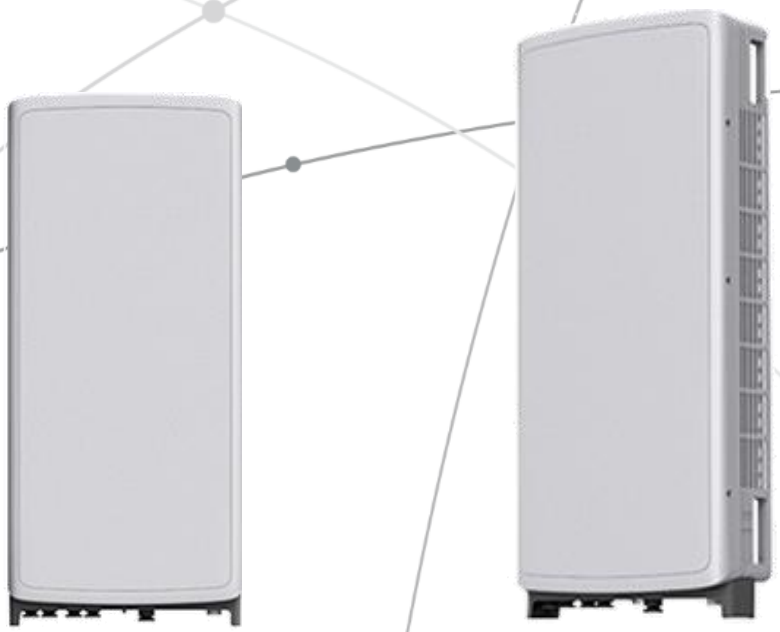
SAMSUNG

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A

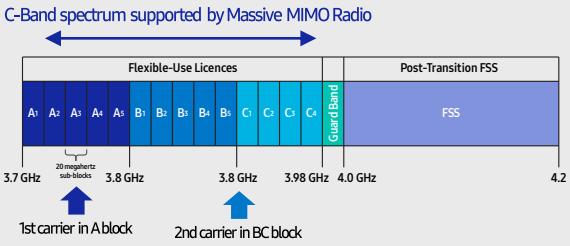


Points of Differentiation

Wide Bandwidth

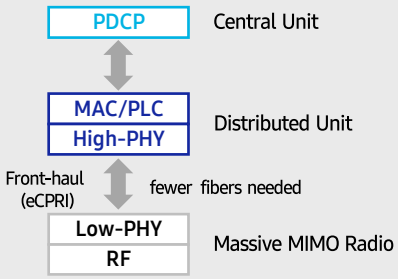
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.
It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.



Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

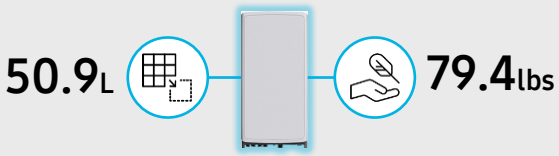
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

Furthermore, as C-Band massive MIMO Radio supports MU-MIMO(Multi-user MIMO) , it enables to increase user throughput by minimizing interference.

Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment..



Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/ Weight	16.06 x 35.06 x 5.51 inch (50.86L)/ 79.4 lbs

SAMSUNG

About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

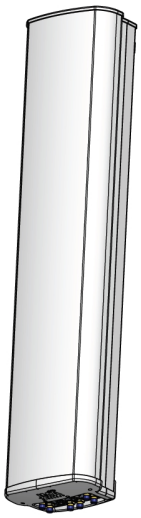
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

X-Pol Hex-Port 6 ft 60° Fast Roll Off antenna with independent tilt on 700 & 850 MHz:

2 ports 698-798, 824-894 MHz and 4 ports 1695-2180 MHz

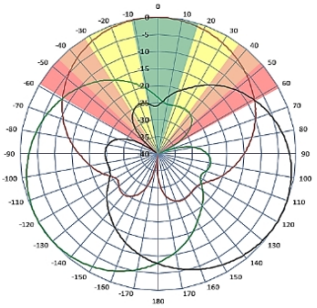
- Fast Roll Off (FRO™) azimuth beam pattern improves Intra- and Inter-cell SINR
- Compatible with dual band 700/850 MHz radios with independent low band EDT without external diplexers
- Fully integrated (iRETs) with independent RET control for low and high bands for ease of network optimization
- SON-Ready array spacing supports beamforming capabilities
- Suitable for LTE/CDMA/PCS/UMTS/GSM air interface technologies
- Integrated Smart Bias-Ts reduce leasing costs



Fast Roll-Off antennas increase data throughput without compromising coverage

The horizontal beam produced by Fast Roll-Off (FRO) technology increases the Signal to Interference & Noise Ratio (SINR) by eliminating overlap between sectors .

Non-FRO antenna



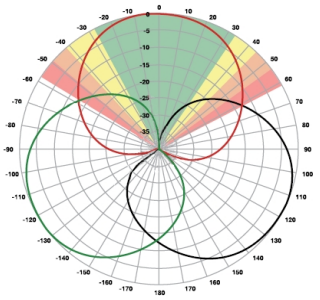
Large traditional antenna pattern overlap creates harmful interference.

JMA's FRO antenna pattern minimizes overlap, thereby minimizing interference.

LTE throughput	SINR	Speed (bps/Hz)	Speed increase	CQI
Excellent	>18	>4.5	333+%	8-10
Good	15-18	3.3-4.5	277%	6-7
Fair	10-15	2-3.3	160%	4-6
Poor	<10	<2	0%	1-3

The LTE radio automatically selects the best throughput based on measured SINR.

JMA FRO antenna



Electrical specification (minimum/maximum)	Ports 1, 2		Ports 3, 4, 5, 6		
Frequency bands, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180
Polarization	± 45°		± 45°		
Average gain over all tilts, dBi	14.4	14.0	17.6	18.0	18.2
Horizontal beamwidth (HBW), degrees	60.5	53.0	55.0	55.0	55.5
Front-to-back ratio, co-polar power @180°± 30°, dB	>24	>24.0	>25.0	>25.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>15.0	>14.2	>18	>18	>15
Sector power ratio, percent	<3.5	<3.0	<3.7	<3.8	<3.6
Vertical beamwidth (VBW), degrees[1]	13.1	11.8	6.0	5.5	5.5
Electrical downtilt (EDT) range, degrees	2-14	2-14	0-9		
First upper side lobe (USLS) suppression, dB[1]	≤-15.0	≤-16.5	≤-16.0	≤-16.0	≤-16.0
Cross-polar isolation, port-to-port, dB[1]	25	25	25	25	25
Max VSWR / return loss, dB	1.5:1 / -14.0		1.5:1 / -14.0		
Max passive intermodulation (PIM), 2x20W carrier, dBc	-153		-153		
Max input power per any port, watts	300		250		
Total composite power all ports, watts	1500				

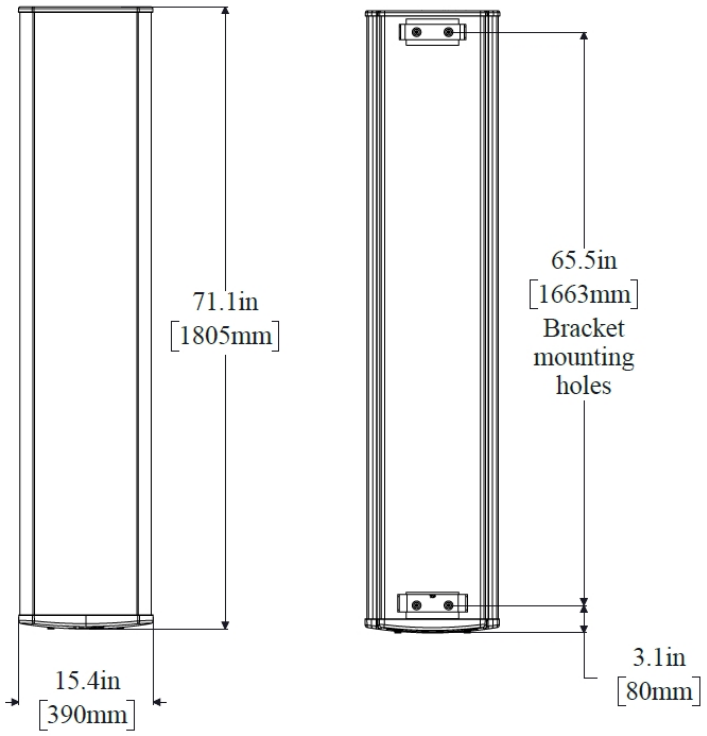
[1] Typical value over frequency and tilt

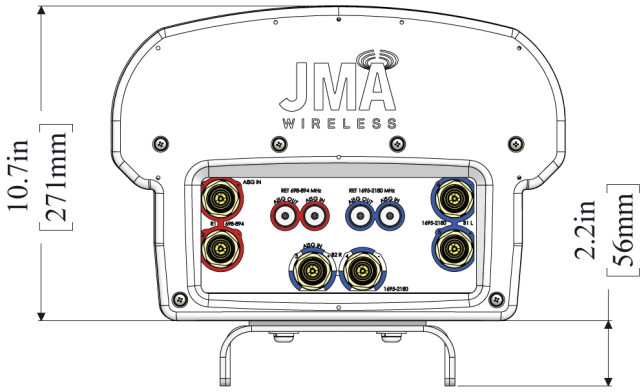
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

Mechanical specifications	
Dimensions height/width/depth, inches (mm)	71.3/ 15.4/ 10.7 (1811/ 392/ 273)
Shipping dimensions length/width/height, inches (mm)	82/ 20/ 15 (2083/ 508/ 381)
No. of RF input ports, connector type, and location	6 x 4.3-10 female, bottom
RF connector torque	96 lbf·in (10.85 N·m or 8 lbf·ft)
Net antenna weight, lb (kg)	60 (27.0)
Shipping weight, lb (kg)	90 (41.0)
Antenna mounting and downtilt kit included with antenna	91900318
Net weight of the mounting and downtilt kit, lb (kg)	18 (8.18)
Range of mechanical up/down tilt	-2° to 14°
Rated wind survival speed, mph (km/h)	150 (241)
Frontal, lateral, and rear wind loading @ 150 km/h, lbf (N)	154 (685), 73 (325), 158 (703)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	2.6

Front view | **Back view** | **Bottom view**





Ordering information	
Antenna model	**Description**
MX06FRO660-03	6F X-Pol HEX FRO 60° independent tilt 700/850 RET, 4.3-10 & SBT
Optional accessories	
AISG cables	M/F cables for AISG connections
PCU-1000 RET controller	Stand-alone controller for RET control and configurations

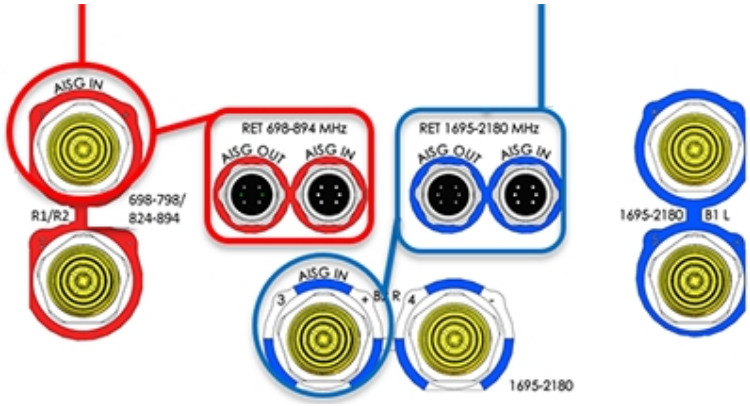
Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors
RET interface connector location	Bottom of the antenna
Total no. of internal RETs (low bands)	2
Total no. of internal RETs (high bands)	1
RET input operating voltage, vdc	10-30
RET max power consumption, idle state, W	≤ 2.0
RET max power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0 / 3GPP

RET and RF connector topology

Each RET device can be controlled either via the designated external AISG connector or RF port as shown below:

RET device	Band	RF port
R1	698-798	1-2
R2	824-894	1-2

RET device	Band	RF port
B1/B2	1695-2180	3-6

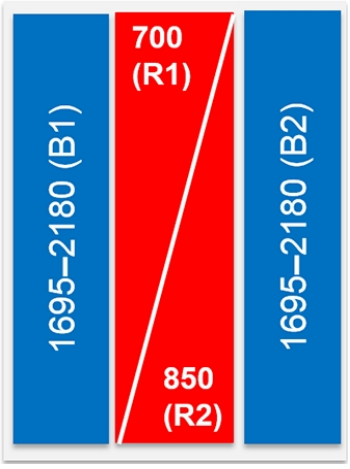


Array topology

3 sets of radiating arrays

R1/R2: 698-894 MHz
B1: 1695-2180 MHz
B2: 1695-2180 MHz

Band	RF port
1695-2180	3-4
698-894	1-2
1695-2180	5-6



ATTACHMENT 3

	General	Power	Density					
Site Name: Danielson W								
Tower Height: Verizon @ 127ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**FREQ.**	**CALC. POWER DENS**	**MAX. PERMISS.EXP.**	**FRACTION MPE**	**Total**
*AT&T	16	250	147	1945	0.0724	1	0.72%	
*T-Mobile	4	1040	137.5	1900	0.0865	1	0.87%	
*T-Mobile	1	390	137.5	1900	0.0081	1	0.08%	
*T-Mobile	2	789	137.5	600	0.0328	0.4	0.82%	
*T-Mobile	2	433	137.5	700	0.0180	0.466666667	0.39%	
VZW 700	**4**	**815**	**127**	**751**	**0.0073**	**0.5007**	**1.45%**	
VZW CDMA	**2**	**485**	**127**	**877.26**	**0.0022**	**0.5848**	**0.37%**	
VZW Cellular	**4**	**692**	**127**	**874**	**0.0062**	**0.5827**	**1.06%**	
VZW PCS	**4**	**1694**	**127**	**1977.5**	**0.0151**	**1.0000**	**1.51%**	
VZW AWS	**4**	**1560**	**127**	**2120**	**0.0139**	**1.0000**	**1.39%**	
VZW CBAND	**4**	**6531**	**127**	**3730.08**	**0.0583**	**1.0000**	**5.83%**	
								14.49%
* Source: Siting Council								

ATTACHMENT 4

Tower Engineering Solutions
Phone (972) 483-0607, Fax (972) 975-9615
1320 Greenway Drive, Suite 600, Irving, Texas 75038

Structural Analysis Report

Existing 150 ft EEI Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT13612-A

Customer Site Name: Ingalls

Carrier Name: Verizon (App#: 172217, V1)

Carrier Site ID / Name: 176421 / DANIELSON_WEST_CT

Site Location: 146 Brown Rd

Brooklyn, Connecticut

Windham County

Latitude: 41.798361

Longitude: -71.935889

Exp.10/31/2021

10/06/2021

Analysis Result:

Max Structural Usage: 88.9% [Pass]

Max Foundation Usage: 51% [Pass]

Additional Usage Caused by Mount Modification: +2.1%

Report Prepared By : Mariana Franco

Introduction

The purpose of this report is to summarize the analysis results on the 150 ft EEI Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Engineered Endeavors Incorporated, Project # 12401, Drawing # GS55101, dated
Foundation Drawing	Engineered Endeavors Incorporated, Project # 12401, Drawing # S12401-150.0, dated 03/18/2004
Geotechnical Report	Jaworski Geotech Inc. Geotechnical Report, dated 04/19/2004
Mount Modification Drawings	Maser Consulting Project #: 21777295A, dated August 17, 2021
Mount Analysis	Maser Consulting Connecticut Project #: 21777295A dated August 16, 2021

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the In accordance with this standard, the structure was analyzed using **TESPoles,** proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed V_{ult} = 130.0 mph (3-Sec. Gust)/ Nominal Design Wind Speed V_{asd} = 101.0 mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	ANSI/TIA/EIA 222-G / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	
Structure Class:	
Topographic Category:	
Crest Height:	0 ft.
Seismic Parameters:	

This structural analysis is based upon the tower being classified as a Structure Class II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			RFS APX16DWV-16DWVS-E-A20 Panel	(1) Low Profile Mount [SitePro RMQP-4096-HK]	(3) 1-5/8" Hybrid	T-Mobile
			RFS APXVAARR24_43-U-NA20 Panel			
			EMS - RR90-19-XXDPQ - Panel			
			Ericsson KRY 112 489/2 TMA			
			Ericsson 4449 B71+B12 RRU			
			Kathrein 782 11056 Bias Ts			
			Commscope / SBNHH-1D65B - Panel	(1) Low Profile Platform	(2) 1 5/8" Fiber	Verizon
			Antel / LPA-80080-6CF - Panel			
			ALU / RRH4x45-AWS			

Proposed Carrier's Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier's final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			Antel LPA-80080/6CF ___ - Panel	(1) Low Profile Platform	(2) 1 5/8" Fiber	Verizon
			JMA MX06FRO660-02 - Panel	(3) P2 1/2 STD Pipe + (3) Site Pro 1 SP219-H Crossover Plates		
			Samsung MT6407-77A - Panel			
			Samsung RF4439d-25A			
			Samsung RF4440d-13A			

All transmission lines are considered running inside of the pole shafts.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:			
Pass/Fail	**Pass**	**Pass**	**Pass**

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions			

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.0715 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

Standard Conditions

This analysis was performed based on the information supplied to **Tower Engineering Solutions,** Verification of the information provided was not included in the Scope of Work for . The accuracy of the analysis is dependent on the accuracy of the information provided.

The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.

The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of . In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, should be notified in writing and the applicable minimum values provided by the client.

The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, should be notified immediately to evaluate the effect of the discrepancy on the analysis results.

The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.

If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

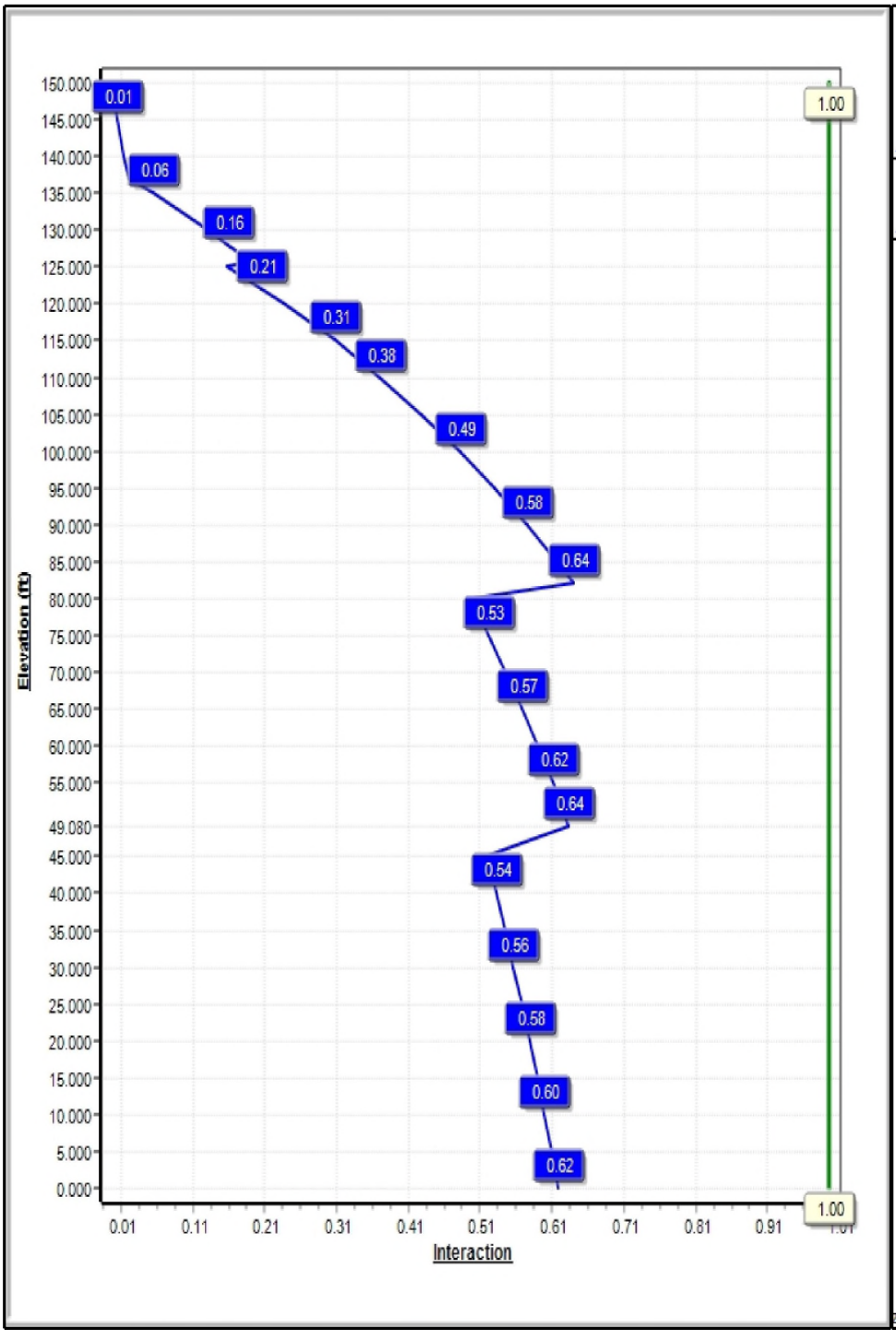
Usage Diagram - Max Ratio 64.43% at 82.1ft

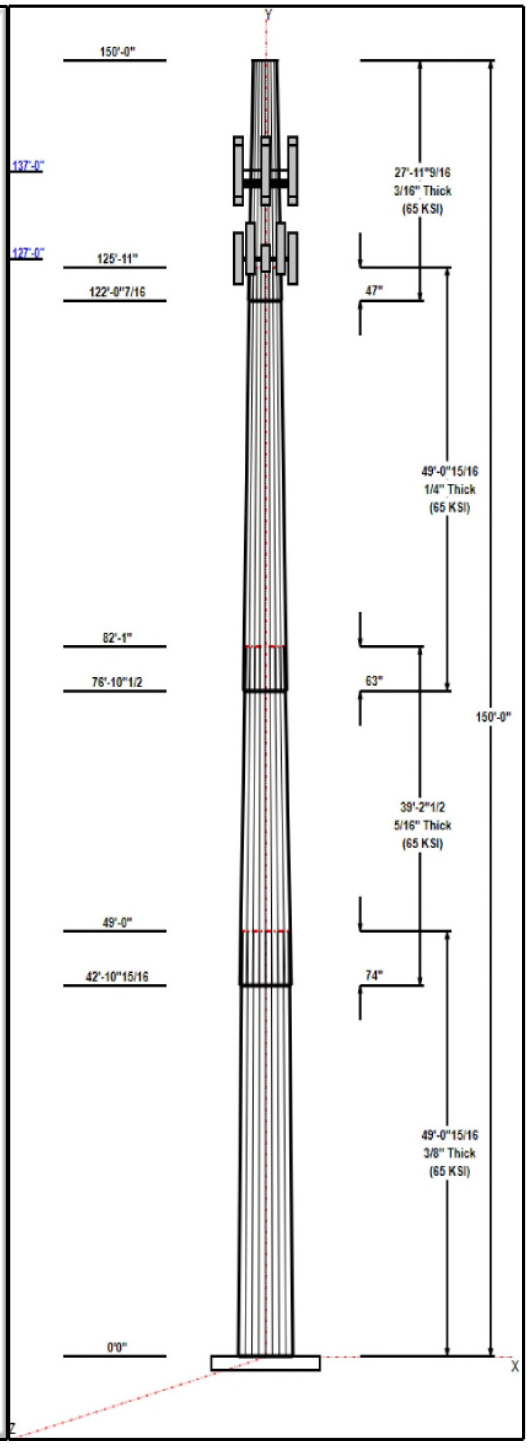
Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021
Site Name:	Ingalls	**Exposure:**	C	
Height:	150.00 (ft)	**Gh:**	1.1	
Base Elev:	1.500 (ft)			Page: 1

Tower Engineering Solutions

Dead Load Factor:	1.20	**Iterations:**	24
Wind Load Factor:	1.60		

Load Case : 1.2D + 1.6W 101 mph Wind





Structure: CT13612-A-SBA

Type: Tapered
Site Name: Ingalls
Height: 150.00 (ft)
Base Elev: 1.50 (ft)

Base Shape: 18 Sided
Taper: 0.23521

10/1/2021

Tower Engineering Solutions

Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	49.08	43.46	55.00	0.375		0.23521	65
2	39.21	36.31	45.53	0.313	Slip	0.23521	65
3	49.08	26.50	38.04	0.250	Slip	0.23521	65
4	27.96	21.22	27.80	0.188	Slip	0.23521	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
150.00	156.00	1	Lightning Rod 1"x10'	
137.00	137.00	3	APX16DWV-16DWVS-E-A	T-Mobile
137.00	137.00	3	APXVAARR24_43-U-NA20	T-Mobile
137.00	137.00	3	Ericsson KRY 112 489/2	T-Mobile
137.00	137.00	3	Ericsson 4449 B71+B12	T-Mobile
137.00	137.00	1	Low Profile Mount	T-Mobile
137.00	137.00	3	KRY 112 144/1	T-Mobile
137.00	137.00	3	RR90-19-XXDPQ	T-Mobile
137.00	137.00	3	Kathrein 782 11056 Bias	T-Mobile
128.00	128.00	6	LPA-80080-6CF	Verizon
127.00	127.00	2	DB-T1-6Z-8AB-0Z	Verizon
127.00	127.00	6	MX06FRO660-02	Verizon
127.00	127.00	3	MT6407-77A	Verizon
127.00	127.00	3	RF4439d-25A	Verizon
127.00	127.00	3	RF4440d-13A	Verizon
127.00	127.00	1	mods	Verizon
127.00	127.00	1	Low Profile Platform	Verizon

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
8.00	150.00	Outside	Safety Cable	
8.00	150.00	Outside	Safety Cable	
8.00	137.00	Inside	1-5/8" Coax	T-Mobile
8.00	137.00	Inside	1-5/8" Hybrid	T-Mobile
8.00	127.00	Inside	1 5/8" Coax	Verizon
8.00	127.00	Inside	1 5/8" Hybrid	Verizon

Anchor Bolts

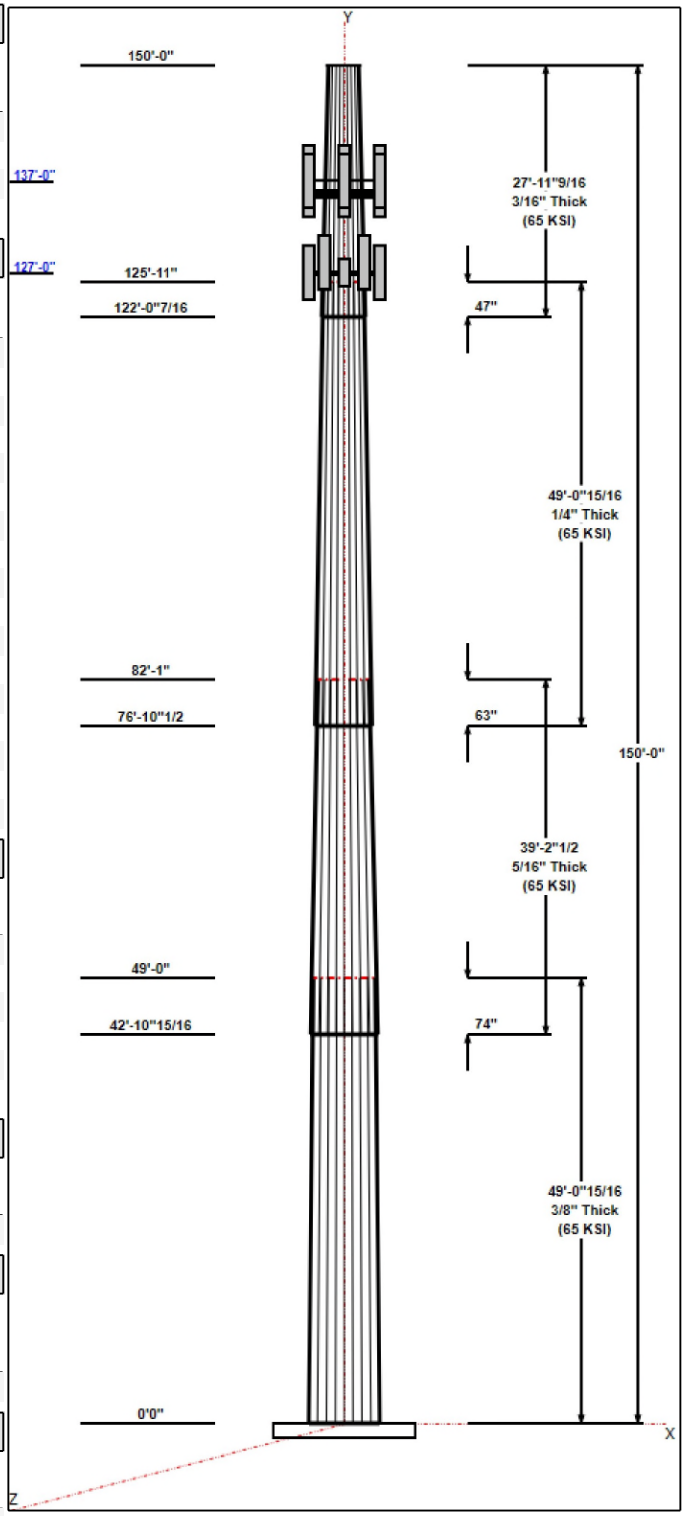
Qty	Specifications	Grade (ksi)	Arrangement
16	2.25" 18J	75.0	Radial

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
2.0000	70.0	60.0	Round

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 101 mph Wind	2937.8	28.6	36.6
0.9D + 1.6W 101 mph Wind	2914.1	28.6	27.4
1.2D + 1.0Di + 1.0Wi 50 mph Wind	845.8	8.1	66.6
1.2D + 1.0E	115.4	1.1	36.6
0.9D + 1.0E	114.4	1.1	27.5



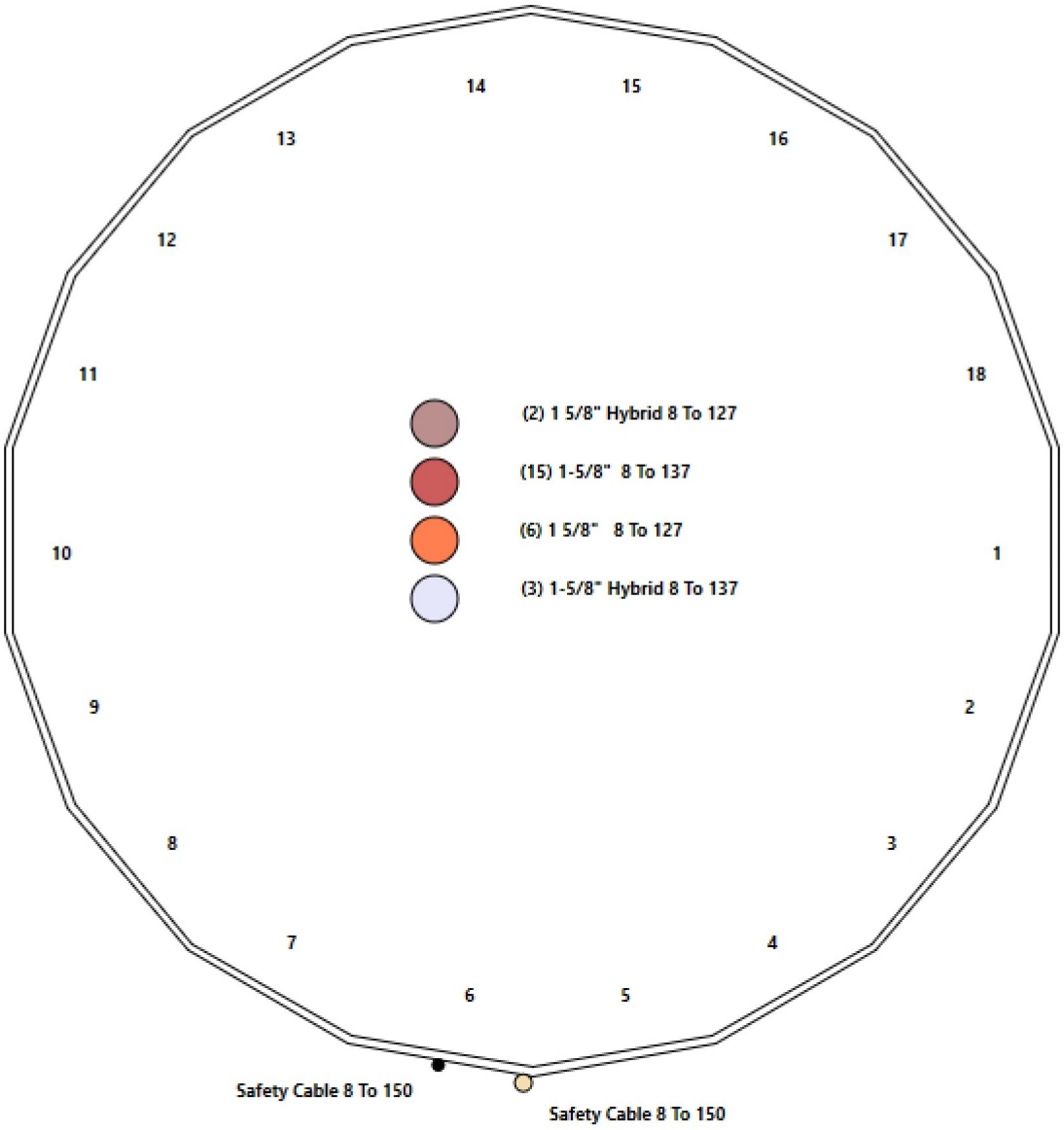
1.0D + 1.0W 60 mph Wind	645.1	6.3	30.5

Structure: CT13612-A-SBA - Coax Line Placement

Type: Monopole
Site Name: Ingalls
Height: 150.00 (ft)

10/1/2021

Tower Engineering Solutions



Shaft Properties

Structure:	CT13612-A-SBA		**Code:**	EIA/TIA-222-G	10/1/2021
Site Name:	Ingalls		**Exposure:**	C	
Height:	150.00 (ft)		**Crest Height:**	0.00	
Base Elev:	1.500 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 5

Tower Engineering Solutions

Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	49.080	0.3750	65		0.00	9,711
2	18	39.210	0.3125	65	Slip	74.00	5,374
3	18	49.080	0.2500	65	Slip	63.00	4,243
4	18	27.963	0.1875	65	Slip	47.00	1,377
					Total Shaft Weight:		**20,705**

	Bottom						Top						
Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	55.00	0.00	65.02	24510.38	24.45	146.67	43.46	49.08	51.27	12023.3	19.02	115.8	0.235213
2	45.53	42.91	44.85	11586.41	24.28	145.70	36.31	82.12	35.70	5844.63	19.08	116.1	0.235213
3	38.04	76.87	29.99	5411.66	25.42	152.17	26.50	125.95	20.83	1813.12	17.28	106.0	0.235213
4	27.80	122.0	16.43	1582.13	24.73	148.24	21.22	150.00	12.52	699.35	18.54	113.1	0.235213

Load Summary

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 6	

Tower Engineering Solutions

Discrete Appurtenances

				No Ice			Ice				
No.	**Elev (ft)**	**Description**	**Qty**	**Weight (lb)**	**CaAa (sf)**	**CaAa Factor**	**Weight (lb)**	**CaAa (sf)**	**CaAa Factor**	**Hor. Ecc. (ft)**	**Vert Ecc (ft)**
1	150.00	Lightning Rod 1"x10'	1	62.00	2.32	1.00	145.85	8.050	1.00	0.00	6.00
2	137.00	APX16DWV-16DWVS-E-A20	3	40.70	6.61	0.72	195.54	9.491	0.72	0.00	0.00
3	137.00	APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	720.47	22.784	0.70	0.00	0.00
4	137.00	Ericsson KRY 112 489/2	3	15.40	0.71	0.67	41.62	1.535	0.67	0.00	0.00
5	137.00	Ericsson 4449 B71+B12	3	74.00	1.65	0.67	170.63	2.359	0.67	0.00	0.00
6	137.00	Low Profile Mount [RMQP-4096-HK]	1	2120.00	50.00	1.00	5056.37	98.939	1.00	0.00	0.00
7	137.00	KRY 112 144/1	3	11.00	0.41	0.67	25.26	1.038	0.67	0.00	0.00
8	137.00	RR90-19-XXDPQ	3	32.00	5.88	0.68	275.53	9.885	0.69	0.00	0.00
9	137.00	Kathrein 782 11056 Bias Ts	3	1.80	0.28	0.67	6.04	0.811	0.67	0.00	0.00
10	128.00	LPA-80080-6CF	6	21.00	4.33	0.88	242.29	6.137	0.88	0.00	0.00
11	127.00	DB-T1-6Z-8AB-0Z	2	44.00	4.80	0.75	243.41	5.971	0.75	0.00	0.00
12	127.00	MX06FRO660-02	6	46.00	9.87	0.87	416.23	11.707	0.87	0.00	0.00
13	127.00	MT6407-77A	3	79.40	4.69	0.70	246.85	5.952	0.70	0.00	0.00
14	127.00	RF4439d-25A	3	84.40	1.87	0.67	192.70	2.645	0.67	0.00	0.00
15	127.00	RF4440d-13A	3	70.30	1.87	0.67	168.85	2.645	0.67	0.00	0.00
16	127.00	mods	1	514.00	13.00	1.00	1314.83	29.680	1.00	0.00	0.00
17	127.00	Low Profile Platform	1	1400.00	22.00	1.00	3003.86	45.187	1.00	0.00	0.00
		Totals:	**48**	**6,197.00**			**20,089.37**				

Linear Appurtenances

Bottom Elev. (ft)	**Top Elev. (ft)**	**Description**	**Exposed Width**	**Exposed**
8.00	150.00	(1) Safety Cable	0.00	Outside
8.00	150.00	(1) Safety Cable	0.00	Outside
8.00	137.00	(15) 1-5/8" Coax	0.00	Inside
8.00	137.00	(3) 1-5/8" Hybrid	0.00	Inside
8.00	127.00	(6) 1 5/8" Coax	0.00	Inside
8.00	127.00	(2) 1 5/8" Hybrid	0.00	Inside

Shaft Section Properties

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 7	

Tower Engineering Solutions

Increment Length: **5 (ft)**

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in^3)	Weight (lb)
0.00		0.3750	55.000	65.015	24510.4	24.45	146.67	72.6	877.7	0.0
5.00		0.3750	53.824	63.615	22961.1	23.90	143.53	73.3	840.2	1094.3
10.00		0.3750	52.648	62.216	21478.5	23.34	140.39	73.9	803.5	1070.4
15.00		0.3750	51.472	60.816	20061.2	22.79	137.26	74.6	767.7	1046.6
20.00		0.3750	50.296	59.416	18707.6	22.24	134.12	75.2	732.6	1022.8
25.00		0.3750	49.120	58.016	17416.3	21.69	130.99	75.9	698.4	999.0
30.00		0.3750	47.944	56.616	16185.9	21.13	127.85	76.5	664.9	975.2
35.00		0.3750	46.768	55.217	15014.8	20.58	124.71	77.2	632.3	951.4
40.00		0.3750	45.591	53.817	13901.6	20.03	121.58	77.8	600.6	927.5
42.91	Bot - Section 2	0.3750	44.906	53.001	13279.1	19.70	119.75	78.2	582.4	529.5
45.00		0.3750	44.415	52.417	12844.9	19.47	118.44	78.5	569.6	691.0
49.08	Top - Section 1	0.3125	44.081	43.411	10506.8	23.46	141.06	0.0	0.0	1329.1
50.00		0.3125	43.864	43.196	10351.7	23.34	140.37	73.9	464.8	135.6
55.00		0.3125	42.688	42.030	9535.6	22.68	136.60	74.7	440.0	725.0
60.00		0.3125	41.512	40.863	8763.5	22.01	132.84	75.5	415.8	705.2
65.00		0.3125	40.336	39.697	8034.2	21.35	129.08	76.3	392.3	685.3
70.00		0.3125	39.160	38.531	7346.6	20.69	125.31	77.1	369.5	665.5
75.00		0.3125	37.984	37.364	6699.4	20.02	121.55	77.9	347.4	645.6
76.87	Bot - Section 3	0.3125	37.543	36.927	6467.0	19.77	120.14	78.1	339.3	236.8
80.00		0.3125	36.808	36.198	6091.3	19.36	117.79	78.6	325.9	704.9
82.12	Top - Section 2	0.2500	36.808	29.008	4898.3	24.55	147.23	0.0	0.0	470.8
85.00		0.2500	36.132	28.471	4631.4	24.07	144.53	73.1	252.5	281.3
90.00		0.2500	34.956	27.538	4190.7	23.24	139.82	74.1	236.1	476.5
95.00		0.2500	33.780	26.605	3779.0	22.41	135.12	75.0	220.3	460.6
100.00		0.2500	32.604	25.672	3395.1	21.59	130.41	76.0	205.1	444.7
105.00		0.2500	31.428	24.739	3038.2	20.76	125.71	77.0	190.4	428.8
110.00		0.2500	30.252	23.805	2707.2	19.93	121.01	78.0	176.3	413.0
115.00		0.2500	29.075	22.872	2401.1	19.10	116.30	78.9	162.7	397.1
120.00		0.2500	27.899	21.939	2119.0	18.27	111.60	79.9	149.6	381.2
122.04	Bot - Section 4	0.2500	27.420	21.559	2010.8	17.93	109.68	80.3	144.4	150.7
125.00		0.2500	26.723	21.006	1860.0	17.44	106.89	80.9	137.1	378.2
125.95	Top - Section 3	0.1875	26.874	15.881	1429.0	23.86	143.33	0.0	0.0	119.6
127.00		0.1875	26.628	15.735	1389.8	23.63	142.02	73.6	102.8	56.3
128.00		0.1875	26.393	15.595	1353.0	23.41	140.76	73.9	101.0	53.3
130.00		0.1875	25.922	15.315	1281.5	22.97	138.25	74.4	97.4	105.2
135.00		0.1875	24.746	14.615	1113.7	21.86	131.98	75.7	88.6	254.6
137.00		0.1875	24.276	14.335	1050.9	21.42	129.47	76.2	85.3	98.5
140.00		0.1875	23.570	13.915	961.2	20.75	125.71	77.0	80.3	144.2
145.00		0.1875	22.394	13.215	823.4	19.65	119.43	78.3	72.4	230.8
150.00		0.1875	21.218	12.515	699.3	18.54	113.16	79.6	64.9	218.9
										20704.9

Wind Loading - Shaft

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 8	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	21.088	23.20	433.37	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	21.088	23.20	424.11	0.650	0.000	5.00	23.021	14.96	555.4	0.0	1313.1
10.00		1.00	0.85	21.088	23.20	414.84	0.650	0.000	5.00	22.524	14.64	543.4	0.0	1284.5
15.00		1.00	0.87	21.487	23.64	409.39	0.650	0.000	5.00	22.026	14.32	541.4	0.0	1255.9
20.00		1.00	0.92	22.718	24.99	411.34	0.650	0.000	5.00	21.529	13.99	559.5	0.0	1227.4
25.00		1.00	0.96	23.740	26.11	410.66	0.650	0.000	5.00	21.031	13.67	571.2	0.0	1198.8
30.00		1.00	0.99	24.620	27.08	408.19	0.650	0.000	5.00	20.533	13.35	578.3	0.0	1170.2
35.00		1.00	1.02	25.396	27.94	404.40	0.650	0.000	5.00	20.036	13.02	582.1	0.0	1141.6
40.00		1.00	1.05	26.091	28.70	399.59	0.650	0.000	5.00	19.538	12.70	583.2	0.0	1113.1
42.91	Bot - Section 2	1.00	1.07	26.467	29.11	396.41	0.650	0.000	2.91	11.155	7.25	337.7	0.0	635.4
45.00		1.00	1.08	26.724	29.40	393.98	0.650	0.000	2.09	7.996	5.20	244.5	0.0	829.2
49.08	Top - Section 1	1.00	1.10	27.201	29.92	388.89	0.650	0.000	4.08	15.384	10.00	478.7	0.0	1594.9
50.00		1.00	1.10	27.305	30.04	393.29	0.650	0.000	0.92	3.423	2.23	106.9	0.0	162.7
55.00		1.00	1.12	27.843	30.63	386.50	0.650	0.000	5.00	18.310	11.90	583.2	0.0	870.0
60.00		1.00	1.14	28.344	31.18	379.22	0.650	0.000	5.00	17.812	11.58	577.6	0.0	846.2
65.00		1.00	1.16	28.814	31.70	371.52	0.650	0.000	5.00	17.315	11.25	570.8	0.0	822.4
70.00		1.00	1.18	29.257	32.18	363.45	0.650	0.000	5.00	16.817	10.93	562.9	0.0	798.6
75.00		1.00	1.20	29.677	32.64	355.05	0.650	0.000	5.00	16.320	10.61	554.1	0.0	774.8
76.87	Bot - Section 3	1.00	1.20	29.828	32.81	351.83	0.650	0.000	1.87	5.986	3.89	204.3	0.0	284.1
80.00		1.00	1.21	30.075	33.08	346.36	0.650	0.000	3.13	9.968	6.48	343.0	0.0	845.9
82.12	Top - Section 2	1.00	1.22	30.238	33.26	342.59	0.650	0.000	2.12	6.658	4.33	230.3	0.0	564.9
85.00		1.00	1.23	30.454	33.50	342.14	0.650	0.000	2.88	8.878	5.77	309.3	0.0	337.6
90.00		1.00	1.24	30.817	33.90	332.96	0.650	0.000	5.00	15.038	9.77	530.2	0.0	571.8
95.00		1.00	1.26	31.164	34.28	323.57	0.650	0.000	5.00	14.541	9.45	518.4	0.0	552.7
100.00		1.00	1.27	31.497	34.65	313.97	0.650	0.000	5.00	14.043	9.13	506.0	0.0	533.7
105.00		1.00	1.28	31.818	35.00	304.18	0.650	0.000	5.00	13.546	8.80	493.1	0.0	514.6
110.00		1.00	1.29	32.126	35.34	294.21	0.650	0.000	5.00	13.048	8.48	479.5	0.0	495.6
115.00		1.00	1.31	32.424	35.67	284.09	0.650	0.000	5.00	12.550	8.16	465.5	0.0	476.5
120.00		1.00	1.32	32.713	35.98	273.80	0.650	0.000	5.00	12.053	7.83	451.1	0.0	457.4
122.04	Bot - Section 4	1.00	1.32	32.827	36.11	269.57	0.650	0.000	2.04	4.767	3.10	179.0	0.0	180.9
125.00		1.00	1.33	32.991	36.29	263.38	0.650	0.000	2.96	6.882	4.47	259.8	0.0	453.8
125.95	Top - Section 3	1.00	1.33	33.044	36.35	261.37	0.650	0.000	0.95	2.177	1.42	82.3	0.0	143.5
127.00	Appurtenance(s)	1.00	1.33	33.101	36.41	262.87	0.650	0.000	1.05	2.369	1.54	89.7	0.0	67.6
128.00	Appurtenance(s)	1.00	1.34	33.155	36.47	260.76	0.650	0.000	1.00	2.243	1.46	85.1	0.0	64.0
130.00		1.00	1.34	33.262	36.59	256.53	0.650	0.000	2.00	4.427	2.88	168.4	0.0	126.2
135.00		1.00	1.35	33.524	36.88	245.85	0.650	0.000	5.00	10.719	6.97	411.1	0.0	305.5
137.00	Appurtenance(s)	1.00	1.36	33.627	36.99	241.55	0.650	0.000	2.00	4.148	2.70	159.6	0.0	118.2
140.00		1.00	1.36	33.779	37.16	235.06	0.650	0.000	3.00	6.073	3.95	234.7	0.0	173.0
145.00		1.00	1.37	34.027	37.43	224.15	0.650	0.000	5.00	9.724	6.32	378.5	0.0	277.0
150.00	Appurtenance(s)	1.00	1.38	34.268	37.69	213.13	0.650	0.000	5.00	9.226	6.00	361.7	0.0	262.7
								Totals:	**150.00**			**15,471.3**		**24,845.8**

Discrete Appurtenance Forces

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 9	

Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	150.00	Lightning Rod 1"x10'	1	34.550	38.004	1.00	1.00	2.32	74.40	0.000	6.000	141.07	0.00	846.44
2	137.00	Low Profile Mount	1	33.627	36.990	1.00	1.00	50.00	2544.00	0.000	0.000	2959.18	0.00	0.00
3	137.00	Ericsson 4449 B71+B12	3	33.627	36.990	0.54	0.80	2.65	266.40	0.000	0.000	157.03	0.00	0.00
4	137.00	Ericsson KRY 112 489/2	3	33.627	36.990	0.54	0.80	1.14	55.44	0.000	0.000	67.57	0.00	0.00
5	137.00	APXVAARR24_43-U-NA2	3	33.627	36.990	0.56	0.80	34.00	460.80	0.000	0.000	2012.43	0.00	0.00
6	137.00	APX16DWV-16DWVS-E-A	3	33.627	36.990	0.58	0.80	11.42	146.52	0.000	0.000	676.00	0.00	0.00
7	137.00	Kathrein 782 11056 Bias	3	33.627	36.990	0.54	0.80	0.45	6.48	0.000	0.000	26.65	0.00	0.00
8	137.00	RR90-19-XXDPQ	3	33.627	36.990	0.54	0.80	9.60	115.20	0.000	0.000	567.93	0.00	0.00
9	137.00	KRY 112 144/1	3	33.627	36.990	0.54	0.80	0.66	39.60	0.000	0.000	39.02	0.00	0.00
10	128.00	LPA-80080-6CF	6	33.155	36.470	0.66	0.75	17.15	151.20	0.000	0.000	1000.55	0.00	0.00
11	127.00	Low Profile Platform	1	33.101	36.411	1.00	1.00	22.00	1680.00	0.000	0.000	1281.66	0.00	0.00
12	127.00	mods	1	33.101	36.411	1.00	1.00	13.00	616.80	0.000	0.000	757.34	0.00	0.00
13	127.00	RF4440d-13A	3	33.101	36.411	0.50	0.75	2.82	253.08	0.000	0.000	164.23	0.00	0.00
14	127.00	RF4439d-25A	3	33.101	36.411	0.50	0.75	2.82	303.84	0.000	0.000	164.23	0.00	0.00
15	127.00	MT6407-77A	3	33.101	36.411	0.52	0.75	7.39	285.84	0.000	0.000	430.33	0.00	0.00
16	127.00	MX06FRO660-02	6	33.101	36.411	0.65	0.75	38.64	331.20	0.000	0.000	2251.12	0.00	0.00
17	127.00	DB-T1-6Z-8AB-0Z	2	33.101	36.411	0.68	0.90	6.48	105.60	0.000	0.000	377.51	0.00	0.00
							Totals:		**7,436.40**			**13,073.83**		

Total Applied Force Summary

Structure:	CT13612-A-SBA		**Code:**	EIA/TIA-222-G	10/1/2021
Site Name:	Ingalls		**Exposure:**	C	
Height:	150.00 (ft)		**Crest Height:**	0.00	
Base Elev:	1.500 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 10

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		555.37	1313.10	0.00	0.00
10.00		543.37	1353.29	0.00	0.00
15.00		541.42	1427.86	0.00	0.00
20.00		559.52	1399.28	0.00	0.00
25.00		571.18	1370.71	0.00	0.00
30.00		578.33	1342.13	0.00	0.00
35.00		582.10	1313.55	0.00	0.00
40.00		583.19	1284.97	0.00	0.00
42.91		337.75	735.53	0.00	0.00
45.00		244.46	900.93	0.00	0.00
49.08		478.73	1735.20	0.00	0.00
50.00		106.93	194.31	0.00	0.00
55.00		583.21	1041.94	0.00	0.00
60.00		577.58	1018.12	0.00	0.00
65.00		570.76	994.31	0.00	0.00
70.00		562.88	970.49	0.00	0.00
75.00		554.05	946.68	0.00	0.00
76.87		204.27	348.55	0.00	0.00
80.00		342.96	953.44	0.00	0.00
82.12		230.33	637.93	0.00	0.00
85.00		309.29	436.50	0.00	0.00
90.00		530.17	743.68	0.00	0.00
95.00		518.40	724.63	0.00	0.00
100.00		506.01	705.57	0.00	0.00
105.00		493.05	686.52	0.00	0.00
110.00		479.55	667.47	0.00	0.00
115.00		465.54	648.42	0.00	0.00
120.00		451.06	629.37	0.00	0.00
122.04		179.02	250.90	0.00	0.00
125.00		259.76	555.70	0.00	0.00
125.95		82.29	176.29	0.00	0.00
127.00	(19) attachments	5516.12	3679.91	0.00	0.00
128.00	(6) attachments	1085.64	239.42	0.00	0.00
130.00		168.45	174.73	0.00	0.00
135.00		411.08	426.81	0.00	0.00
137.00	(22) attachments	6665.38	3801.16	0.00	0.00
140.00		234.68	177.76	0.00	0.00
145.00		378.51	284.83	0.00	0.00
150.00	(1) attachments	502.76	344.94	0.00	846.44
	Totals:	**28,545.15**	**36,636.93**	**0.00**	**846.44**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 11	

Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
10.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	21.088	0.00	2.50
10.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	21.088	0.00	0.66
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	21.487	0.00	6.24
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	21.487	0.00	1.64
20.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	22.718	0.00	6.24
20.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	22.718	0.00	1.64
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	23.740	0.00	6.24
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	23.740	0.00	1.64
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	24.620	0.00	6.24
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	24.620	0.00	1.64
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	25.396	0.00	6.24
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	25.396	0.00	1.64
40.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	26.091	0.00	6.24
40.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	26.091	0.00	1.64
42.91	Safety Cable	Yes	2.91	0.000	0.00	0.00	0.00	0.000	0.000	26.467	0.00	3.64
42.91	Safety Cable	Yes	2.91	0.000	0.00	0.00	0.00	0.000	0.000	26.467	0.00	0.95
45.00	Safety Cable	Yes	2.09	0.000	0.00	0.00	0.00	0.000	0.000	26.724	0.00	2.60
45.00	Safety Cable	Yes	2.09	0.000	0.00	0.00	0.00	0.000	0.000	26.724	0.00	0.68
49.08	Safety Cable	Yes	4.08	0.000	0.00	0.00	0.00	0.000	0.000	27.201	0.00	5.09
49.08	Safety Cable	Yes	4.08	0.000	0.00	0.00	0.00	0.000	0.000	27.201	0.00	1.34
50.00	Safety Cable	Yes	0.92	0.000	0.00	0.00	0.00	0.000	0.000	27.305	0.00	1.15
50.00	Safety Cable	Yes	0.92	0.000	0.00	0.00	0.00	0.000	0.000	27.305	0.00	0.30
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	27.843	0.00	6.24
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	27.843	0.00	1.64
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	28.344	0.00	6.24
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	28.344	0.00	1.64
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	28.814	0.00	6.24
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	28.814	0.00	1.64
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	29.257	0.00	6.24
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	29.257	0.00	1.64
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	29.677	0.00	6.24
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	29.677	0.00	1.64
76.87	Safety Cable	Yes	1.87	0.000	0.00	0.00	0.00	0.000	0.000	29.828	0.00	2.34
76.87	Safety Cable	Yes	1.87	0.000	0.00	0.00	0.00	0.000	0.000	29.828	0.00	0.61
80.00	Safety Cable	Yes	3.13	0.000	0.00	0.00	0.00	0.000	0.000	30.075	0.00	3.90
80.00	Safety Cable	Yes	3.13	0.000	0.00	0.00	0.00	0.000	0.000	30.075	0.00	1.02
82.12	Safety Cable	Yes	2.12	0.000	0.00	0.00	0.00	0.000	0.000	30.238	0.00	2.65
82.12	Safety Cable	Yes	2.12	0.000	0.00	0.00	0.00	0.000	0.000	30.238	0.00	0.70
85.00	Safety Cable	Yes	2.88	0.000	0.00	0.00	0.00	0.000	0.000	30.454	0.00	3.59
85.00	Safety Cable	Yes	2.88	0.000	0.00	0.00	0.00	0.000	0.000	30.454	0.00	0.94
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	30.817	0.00	6.24
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	30.817	0.00	1.64
95.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.164	0.00	6.24
95.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.164	0.00	1.64
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.497	0.00	6.24
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.497	0.00	1.64
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.818	0.00	6.24

Linear Appurtenance Segment Forces (Factored)

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 12	

Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.818	0.00	1.64
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	32.126	0.00	6.24
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	32.126	0.00	1.64
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	32.424	0.00	6.24
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	32.424	0.00	1.64
120.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	32.713	0.00	6.24
120.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	32.713	0.00	1.64
122.04	Safety Cable	Yes	2.04	0.000	0.00	0.00	0.00	0.000	0.000	32.827	0.00	2.54
122.04	Safety Cable	Yes	2.04	0.000	0.00	0.00	0.00	0.000	0.000	32.827	0.00	0.67
125.00	Safety Cable	Yes	2.96	0.000	0.00	0.00	0.00	0.000	0.000	32.991	0.00	3.70
125.00	Safety Cable	Yes	2.96	0.000	0.00	0.00	0.00	0.000	0.000	32.991	0.00	0.97
125.95	Safety Cable	Yes	0.95	0.000	0.00	0.00	0.00	0.000	0.000	33.044	0.00	1.19
125.95	Safety Cable	Yes	0.95	0.000	0.00	0.00	0.00	0.000	0.000	33.044	0.00	0.31
127.00	Safety Cable	Yes	1.05	0.000	0.00	0.00	0.00	0.000	0.000	33.101	0.00	1.31
127.00	Safety Cable	Yes	1.05	0.000	0.00	0.00	0.00	0.000	0.000	33.101	0.00	0.34
128.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	33.155	0.00	1.25
128.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	33.155	0.00	0.33
130.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	33.262	0.00	2.50
130.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	33.262	0.00	0.66
135.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	33.524	0.00	6.24
135.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	33.524	0.00	1.64
137.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	33.627	0.00	2.50
137.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	33.627	0.00	0.66
140.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	33.779	0.00	3.74
140.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	33.779	0.00	0.98
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	34.027	0.00	6.24
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	34.027	0.00	1.64
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	34.268	0.00	6.24
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	34.268	0.00	1.64
									Totals:		**0.0**	**223.7**

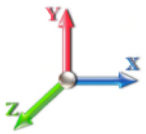
Calculated Forces

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 13	

Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 24

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-36.59	-28.60	0.00	-2937.8	0.00	2937.82	4250.57	2125.28	9550.04	4782.12	0.00	0.000	0.000	0.623
5.00	-35.20	-28.14	0.00	-2794.8	0.00	2794.83	4196.29	2098.14	9223.72	4618.72	0.09	-0.166	0.000	0.614
10.00	-33.77	-27.70	0.00	-2654.1	0.00	2654.11	4140.37	2070.19	8899.17	4456.20	0.35	-0.335	0.000	0.604
15.00	-32.26	-27.24	0.00	-2515.6	0.00	2515.63	4082.82	2041.41	8576.63	4294.69	0.80	-0.506	0.000	0.594
20.00	-30.79	-26.76	0.00	-2379.4	0.00	2379.43	4023.63	2011.81	8256.33	4134.30	1.42	-0.680	0.000	0.583
25.00	-29.34	-26.26	0.00	-2245.6	0.00	2245.63	3962.80	1981.40	7938.51	3975.15	2.23	-0.856	0.000	0.572
30.00	-27.93	-25.75	0.00	-2114.3	0.00	2114.32	3900.33	1950.16	7623.41	3817.37	3.22	-1.034	0.000	0.561
35.00	-26.55	-25.23	0.00	-1985.5	0.00	1985.58	3836.22	1918.11	7311.28	3661.07	4.40	-1.214	0.000	0.549
40.00	-25.21	-24.68	0.00	-1859.4	0.00	1859.45	3770.47	1885.24	7002.35	3506.38	5.77	-1.396	0.000	0.537
42.91	-24.45	-24.36	0.00	-1787.5	0.00	1787.56	3731.41	1865.70	6823.91	3417.03	6.66	-1.505	0.000	0.530
45.00	-23.51	-24.14	0.00	-1736.7	0.00	1736.73	3703.09	1851.54	6696.86	3353.41	7.33	-1.584	0.000	0.524
49.08	-21.75	-23.65	0.00	-1638.2	0.00	1638.24	2883.58	1441.79	5189.66	2598.69	8.75	-1.736	0.000	0.638
50.00	-21.50	-23.58	0.00	-1616.4	0.00	1616.49	2874.90	1437.45	5148.29	2577.97	9.09	-1.772	0.000	0.635
55.00	-20.39	-23.04	0.00	-1498.5	0.00	1498.59	2826.79	1413.40	4924.46	2465.89	11.06	-1.986	0.000	0.615
60.00	-19.31	-22.50	0.00	-1383.3	0.00	1383.39	2777.04	1388.52	4702.55	2354.77	13.26	-2.201	0.000	0.595
65.00	-18.26	-21.96	0.00	-1270.9	0.00	1270.90	2725.66	1362.83	4482.79	2244.72	15.68	-2.416	0.000	0.573
70.00	-17.24	-21.42	0.00	-1161.1	0.00	1161.11	2672.63	1336.31	4265.41	2135.88	18.32	-2.631	0.000	0.550
75.00	-16.26	-20.86	0.00	-1054.0	0.00	1054.03	2617.96	1308.98	4050.67	2028.35	21.19	-2.846	0.000	0.526
76.87	-15.89	-20.67	0.00	-1014.9	0.00	1014.96	2597.06	1298.53	3970.94	1988.42	22.33	-2.928	0.000	0.517
80.00	-14.91	-20.31	0.00	-950.33	0.00	950.33	2561.66	1280.83	3838.80	1922.25	24.29	-3.063	0.000	0.500
82.12	-14.25	-20.07	0.00	-907.22	0.00	907.22	1893.43	946.71	2847.18	1425.71	25.67	-3.155	0.000	0.644
85.00	-13.77	-19.78	0.00	-849.49	0.00	849.49	1872.76	936.38	2763.64	1383.87	27.61	-3.278	0.000	0.622
90.00	-12.98	-19.26	0.00	-750.59	0.00	750.59	1835.56	917.78	2619.34	1311.62	31.18	-3.524	0.000	0.580
95.00	-12.21	-18.75	0.00	-654.29	0.00	654.29	1796.72	898.36	2476.41	1240.05	34.99	-3.762	0.000	0.535
100.00	-11.47	-18.24	0.00	-560.55	0.00	560.55	1756.24	878.12	2335.09	1169.28	39.06	-3.991	0.000	0.486
105.00	-10.75	-17.74	0.00	-469.35	0.00	469.35	1714.12	857.06	2195.60	1099.43	43.35	-4.207	0.000	0.434
110.00	-10.07	-17.24	0.00	-380.66	0.00	380.66	1670.37	835.18	2058.21	1030.63	47.86	-4.406	0.000	0.376
115.00	-9.41	-16.75	0.00	-294.45	0.00	294.45	1624.97	812.48	1923.13	963.00	52.57	-4.583	0.000	0.312
120.00	-8.79	-16.27	0.00	-210.68	0.00	210.68	1577.93	788.97	1790.62	896.64	57.45	-4.733	0.000	0.241
122.04	-8.54	-16.08	0.00	-177.54	0.00	177.54	1558.31	779.15	1737.43	870.01	59.48	-4.786	0.000	0.210
125.00	-8.00	-15.78	0.00	-129.90	0.00	129.90	1529.26	764.63	1660.91	831.69	62.47	-4.850	0.000	0.162
125.95	-7.82	-15.68	0.00	-114.85	0.00	114.85	1048.18	524.09	1150.34	576.03	63.44	-4.868	0.000	0.208
127.00	-4.62	-9.88	0.00	-98.44	0.00	98.44	1042.37	521.19	1133.34	567.51	64.51	-4.886	0.000	0.178
128.00	-4.47	-8.78	0.00	-88.56	0.00	88.56	1036.75	518.37	1117.13	559.39	65.53	-4.905	0.000	0.163
130.00	-4.31	-8.60	0.00	-71.01	0.00	71.01	1025.31	512.65	1084.83	543.22	67.59	-4.938	0.000	0.135
135.00	-3.91	-8.15	0.00	-28.02	0.00	28.02	995.56	497.78	1004.87	503.18	72.79	-4.993	0.000	0.060
137.00	-0.71	-1.18	0.00	-11.71	0.00	11.71	983.21	491.60	973.24	487.34	74.89	-5.004	0.000	0.025
140.00	-0.55	-0.93	0.00	-8.17	0.00	8.17	964.18	482.09	926.23	463.80	78.03	-5.012	0.000	0.018
145.00	-0.30	-0.53	0.00	-3.50	0.00	3.50	931.15	465.58	849.16	425.21	83.28	-5.020	0.000	0.009
150.00	0.00	-0.50	0.00	-0.85	0.00	0.85	896.49	448.25	773.89	387.52	88.53	-5.024	0.000	0.002

Wind Loading - Shaft

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 14	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 24

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	21.088	23.20	433.37	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	21.088	23.20	424.11	0.650	0.000	5.00	23.021	14.96	555.4	0.0	984.8
10.00		1.00	0.85	21.088	23.20	414.84	0.650	0.000	5.00	22.524	14.64	543.4	0.0	963.4
15.00		1.00	0.87	21.487	23.64	409.39	0.650	0.000	5.00	22.026	14.32	541.4	0.0	942.0
20.00		1.00	0.92	22.718	24.99	411.34	0.650	0.000	5.00	21.529	13.99	559.5	0.0	920.5
25.00		1.00	0.96	23.740	26.11	410.66	0.650	0.000	5.00	21.031	13.67	571.2	0.0	899.1
30.00		1.00	0.99	24.620	27.08	408.19	0.650	0.000	5.00	20.533	13.35	578.3	0.0	877.7
35.00		1.00	1.02	25.396	27.94	404.40	0.650	0.000	5.00	20.036	13.02	582.1	0.0	856.2
40.00		1.00	1.05	26.091	28.70	399.59	0.650	0.000	5.00	19.538	12.70	583.2	0.0	834.8
42.91	Bot - Section 2	1.00	1.07	26.467	29.11	396.41	0.650	0.000	2.91	11.155	7.25	337.7	0.0	476.5
45.00		1.00	1.08	26.724	29.40	393.98	0.650	0.000	2.09	7.996	5.20	244.5	0.0	621.9
49.08	Top - Section 1	1.00	1.10	27.201	29.92	388.89	0.650	0.000	4.08	15.384	10.00	478.7	0.0	1196.2
50.00		1.00	1.10	27.305	30.04	393.29	0.650	0.000	0.92	3.423	2.23	106.9	0.0	122.0
55.00		1.00	1.12	27.843	30.63	386.50	0.650	0.000	5.00	18.310	11.90	583.2	0.0	652.5
60.00		1.00	1.14	28.344	31.18	379.22	0.650	0.000	5.00	17.812	11.58	577.6	0.0	634.7
65.00		1.00	1.16	28.814	31.70	371.52	0.650	0.000	5.00	17.315	11.25	570.8	0.0	616.8
70.00		1.00	1.18	29.257	32.18	363.45	0.650	0.000	5.00	16.817	10.93	562.9	0.0	598.9
75.00		1.00	1.20	29.677	32.64	355.05	0.650	0.000	5.00	16.320	10.61	554.1	0.0	581.1
76.87	Bot - Section 3	1.00	1.20	29.828	32.81	351.83	0.650	0.000	1.87	5.986	3.89	204.3	0.0	213.1
80.00		1.00	1.21	30.075	33.08	346.36	0.650	0.000	3.13	9.968	6.48	343.0	0.0	634.5
82.12	Top - Section 2	1.00	1.22	30.238	33.26	342.59	0.650	0.000	2.12	6.658	4.33	230.3	0.0	423.7
85.00		1.00	1.23	30.454	33.50	342.14	0.650	0.000	2.88	8.878	5.77	309.3	0.0	253.2
90.00		1.00	1.24	30.817	33.90	332.96	0.650	0.000	5.00	15.038	9.77	530.2	0.0	428.8
95.00		1.00	1.26	31.164	34.28	323.57	0.650	0.000	5.00	14.541	9.45	518.4	0.0	414.5
100.00		1.00	1.27	31.497	34.65	313.97	0.650	0.000	5.00	14.043	9.13	506.0	0.0	400.2
105.00		1.00	1.28	31.818	35.00	304.18	0.650	0.000	5.00	13.546	8.80	493.1	0.0	386.0
110.00		1.00	1.29	32.126	35.34	294.21	0.650	0.000	5.00	13.048	8.48	479.5	0.0	371.7
115.00		1.00	1.31	32.424	35.67	284.09	0.650	0.000	5.00	12.550	8.16	465.5	0.0	357.4
120.00		1.00	1.32	32.713	35.98	273.80	0.650	0.000	5.00	12.053	7.83	451.1	0.0	343.1
122.04	Bot - Section 4	1.00	1.32	32.827	36.11	269.57	0.650	0.000	2.04	4.767	3.10	179.0	0.0	135.7
125.00		1.00	1.33	32.991	36.29	263.38	0.650	0.000	2.96	6.882	4.47	259.8	0.0	340.4
125.95	Top - Section 3	1.00	1.33	33.044	36.35	261.37	0.650	0.000	0.95	2.177	1.42	82.3	0.0	107.6
127.00	Appurtenance(s)	1.00	1.33	33.101	36.41	262.87	0.650	0.000	1.05	2.369	1.54	89.7	0.0	50.7
128.00	Appurtenance(s)	1.00	1.34	33.155	36.47	260.76	0.650	0.000	1.00	2.243	1.46	85.1	0.0	48.0
130.00		1.00	1.34	33.262	36.59	256.53	0.650	0.000	2.00	4.427	2.88	168.4	0.0	94.7
135.00		1.00	1.35	33.524	36.88	245.85	0.650	0.000	5.00	10.719	6.97	411.1	0.0	229.2
137.00	Appurtenance(s)	1.00	1.36	33.627	36.99	241.55	0.650	0.000	2.00	4.148	2.70	159.6	0.0	88.7
140.00		1.00	1.36	33.779	37.16	235.06	0.650	0.000	3.00	6.073	3.95	234.7	0.0	129.8
145.00		1.00	1.37	34.027	37.43	224.15	0.650	0.000	5.00	9.724	6.32	378.5	0.0	207.7
150.00	Appurtenance(s)	1.00	1.38	34.268	37.69	213.13	0.650	0.000	5.00	9.226	6.00	361.7	0.0	197.0
								Totals:	**150.00**			**15,471.3**		**18,634.4**

Discrete Appurtenance Forces

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 15	

Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	150.00	Lightning Rod 1"x10'	1	34.550	38.004	1.00	1.00	2.32	55.80	0.000	6.000	141.07	0.00	846.44
2	137.00	Low Profile Mount	1	33.627	36.990	1.00	1.00	50.00	1908.00	0.000	0.000	2959.18	0.00	0.00
3	137.00	Ericsson 4449 B71+B12	3	33.627	36.990	0.54	0.80	2.65	199.80	0.000	0.000	157.03	0.00	0.00
4	137.00	Ericsson KRY 112 489/2	3	33.627	36.990	0.54	0.80	1.14	41.58	0.000	0.000	67.57	0.00	0.00
5	137.00	APXVAARR24_43-U-NA2	3	33.627	36.990	0.56	0.80	34.00	345.60	0.000	0.000	2012.43	0.00	0.00
6	137.00	APX16DWV-16DWVS-E-A	3	33.627	36.990	0.58	0.80	11.42	109.89	0.000	0.000	676.00	0.00	0.00
7	137.00	Kathrein 782 11056 Bias	3	33.627	36.990	0.54	0.80	0.45	4.86	0.000	0.000	26.65	0.00	0.00
8	137.00	RR90-19-XXDPQ	3	33.627	36.990	0.54	0.80	9.60	86.40	0.000	0.000	567.93	0.00	0.00
9	137.00	KRY 112 144/1	3	33.627	36.990	0.54	0.80	0.66	29.70	0.000	0.000	39.02	0.00	0.00
10	128.00	LPA-80080-6CF	6	33.155	36.470	0.66	0.75	17.15	113.40	0.000	0.000	1000.55	0.00	0.00
11	127.00	Low Profile Platform	1	33.101	36.411	1.00	1.00	22.00	1260.00	0.000	0.000	1281.66	0.00	0.00
12	127.00	mods	1	33.101	36.411	1.00	1.00	13.00	462.60	0.000	0.000	757.34	0.00	0.00
13	127.00	RF4440d-13A	3	33.101	36.411	0.50	0.75	2.82	189.81	0.000	0.000	164.23	0.00	0.00
14	127.00	RF4439d-25A	3	33.101	36.411	0.50	0.75	2.82	227.88	0.000	0.000	164.23	0.00	0.00
15	127.00	MT6407-77A	3	33.101	36.411	0.52	0.75	7.39	214.38	0.000	0.000	430.33	0.00	0.00
16	127.00	MX06FRO660-02	6	33.101	36.411	0.65	0.75	38.64	248.40	0.000	0.000	2251.12	0.00	0.00
17	127.00	DB-T1-6Z-8AB-0Z	2	33.101	36.411	0.68	0.90	6.48	79.20	0.000	0.000	377.51	0.00	0.00
							Totals:		**5,577.30**			**13,073.83**		

Total Applied Force Summary

Structure:	CT13612-A-SBA		**Code:**	EIA/TIA-222-G	10/1/2021
Site Name:	Ingalls		**Exposure:**	C	
Height:	150.00 (ft)		**Crest Height:**	0.00	
Base Elev:	1.500 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 16

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		555.37	984.83	0.00	0.00
10.00		543.37	1014.97	0.00	0.00
15.00		541.42	1070.90	0.00	0.00
20.00		559.52	1049.46	0.00	0.00
25.00		571.18	1028.03	0.00	0.00
30.00		578.33	1006.60	0.00	0.00
35.00		582.10	985.16	0.00	0.00
40.00		583.19	963.73	0.00	0.00
42.91		337.75	551.65	0.00	0.00
45.00		244.46	675.70	0.00	0.00
49.08		478.73	1301.40	0.00	0.00
50.00		106.93	145.73	0.00	0.00
55.00		583.21	781.45	0.00	0.00
60.00		577.58	763.59	0.00	0.00
65.00		570.76	745.73	0.00	0.00
70.00		562.88	727.87	0.00	0.00
75.00		554.05	710.01	0.00	0.00
76.87		204.27	261.42	0.00	0.00
80.00		342.96	715.08	0.00	0.00
82.12		230.33	478.45	0.00	0.00
85.00		309.29	327.37	0.00	0.00
90.00		530.17	557.76	0.00	0.00
95.00		518.40	543.47	0.00	0.00
100.00		506.01	529.18	0.00	0.00
105.00		493.05	514.89	0.00	0.00
110.00		479.55	500.60	0.00	0.00
115.00		465.54	486.31	0.00	0.00
120.00		451.06	472.02	0.00	0.00
122.04		179.02	188.18	0.00	0.00
125.00		259.76	416.78	0.00	0.00
125.95		82.29	132.21	0.00	0.00
127.00	(19) attachments	5516.12	2759.93	0.00	0.00
128.00	(6) attachments	1085.64	179.57	0.00	0.00
130.00		168.45	131.04	0.00	0.00
135.00		411.08	320.11	0.00	0.00
137.00	(22) attachments	6665.38	2850.87	0.00	0.00
140.00		234.68	133.32	0.00	0.00
145.00		378.51	213.62	0.00	0.00
150.00	(1) attachments	502.76	258.71	0.00	846.44
	Totals:	**28,545.15**	**27,477.70**	**0.00**	**846.44**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 17	

Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
10.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	21.088	0.00	1.87
10.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	21.088	0.00	0.49
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	21.487	0.00	4.68
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	21.487	0.00	1.23
20.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	22.718	0.00	4.68
20.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	22.718	0.00	1.23
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	23.740	0.00	4.68
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	23.740	0.00	1.23
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	24.620	0.00	4.68
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	24.620	0.00	1.23
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	25.396	0.00	4.68
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	25.396	0.00	1.23
40.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	26.091	0.00	4.68
40.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	26.091	0.00	1.23
42.91	Safety Cable	Yes	2.91	0.000	0.00	0.00	0.00	0.000	0.000	26.467	0.00	2.73
42.91	Safety Cable	Yes	2.91	0.000	0.00	0.00	0.00	0.000	0.000	26.467	0.00	0.72
45.00	Safety Cable	Yes	2.09	0.000	0.00	0.00	0.00	0.000	0.000	26.724	0.00	1.95
45.00	Safety Cable	Yes	2.09	0.000	0.00	0.00	0.00	0.000	0.000	26.724	0.00	0.51
49.08	Safety Cable	Yes	4.08	0.000	0.00	0.00	0.00	0.000	0.000	27.201	0.00	3.82
49.08	Safety Cable	Yes	4.08	0.000	0.00	0.00	0.00	0.000	0.000	27.201	0.00	1.00
50.00	Safety Cable	Yes	0.92	0.000	0.00	0.00	0.00	0.000	0.000	27.305	0.00	0.86
50.00	Safety Cable	Yes	0.92	0.000	0.00	0.00	0.00	0.000	0.000	27.305	0.00	0.23
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	27.843	0.00	4.68
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	27.843	0.00	1.23
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	28.344	0.00	4.68
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	28.344	0.00	1.23
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	28.814	0.00	4.68
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	28.814	0.00	1.23
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	29.257	0.00	4.68
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	29.257	0.00	1.23
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	29.677	0.00	4.68
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	29.677	0.00	1.23
76.87	Safety Cable	Yes	1.87	0.000	0.00	0.00	0.00	0.000	0.000	29.828	0.00	1.75
76.87	Safety Cable	Yes	1.87	0.000	0.00	0.00	0.00	0.000	0.000	29.828	0.00	0.46
80.00	Safety Cable	Yes	3.13	0.000	0.00	0.00	0.00	0.000	0.000	30.075	0.00	2.93
80.00	Safety Cable	Yes	3.13	0.000	0.00	0.00	0.00	0.000	0.000	30.075	0.00	0.77
82.12	Safety Cable	Yes	2.12	0.000	0.00	0.00	0.00	0.000	0.000	30.238	0.00	1.99
82.12	Safety Cable	Yes	2.12	0.000	0.00	0.00	0.00	0.000	0.000	30.238	0.00	0.52
85.00	Safety Cable	Yes	2.88	0.000	0.00	0.00	0.00	0.000	0.000	30.454	0.00	2.69
85.00	Safety Cable	Yes	2.88	0.000	0.00	0.00	0.00	0.000	0.000	30.454	0.00	0.71
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	30.817	0.00	4.68
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	30.817	0.00	1.23
95.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.164	0.00	4.68
95.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.164	0.00	1.23
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.497	0.00	4.68
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.497	0.00	1.23
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.818	0.00	4.68

Linear Appurtenance Segment Forces (Factored)

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 18	

Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.818	0.00	1.23
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	32.126	0.00	4.68
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	32.126	0.00	1.23
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	32.424	0.00	4.68
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	32.424	0.00	1.23
120.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	32.713	0.00	4.68
120.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	32.713	0.00	1.23
122.04	Safety Cable	Yes	2.04	0.000	0.00	0.00	0.00	0.000	0.000	32.827	0.00	1.91
122.04	Safety Cable	Yes	2.04	0.000	0.00	0.00	0.00	0.000	0.000	32.827	0.00	0.50
125.00	Safety Cable	Yes	2.96	0.000	0.00	0.00	0.00	0.000	0.000	32.991	0.00	2.77
125.00	Safety Cable	Yes	2.96	0.000	0.00	0.00	0.00	0.000	0.000	32.991	0.00	0.73
125.95	Safety Cable	Yes	0.95	0.000	0.00	0.00	0.00	0.000	0.000	33.044	0.00	0.89
125.95	Safety Cable	Yes	0.95	0.000	0.00	0.00	0.00	0.000	0.000	33.044	0.00	0.23
127.00	Safety Cable	Yes	1.05	0.000	0.00	0.00	0.00	0.000	0.000	33.101	0.00	0.98
127.00	Safety Cable	Yes	1.05	0.000	0.00	0.00	0.00	0.000	0.000	33.101	0.00	0.26
128.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	33.155	0.00	0.94
128.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	33.155	0.00	0.25
130.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	33.262	0.00	1.87
130.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	33.262	0.00	0.49
135.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	33.524	0.00	4.68
135.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	33.524	0.00	1.23
137.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	33.627	0.00	1.87
137.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	33.627	0.00	0.49
140.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	33.779	0.00	2.81
140.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	33.779	0.00	0.74
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	34.027	0.00	4.68
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	34.027	0.00	1.23
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	34.268	0.00	4.68
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	34.268	0.00	1.23
									Totals:		**0.0**	**167.8**

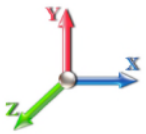
Calculated Forces

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 19	

Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 24

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-27.44	-28.58	0.00	-2914.0	0.00	2914.09	4250.57	2125.28	9550.04	4782.12	0.00	0.000	0.000	0.616
5.00	-26.37	-28.10	0.00	-2771.1	0.00	2771.17	4196.29	2098.14	9223.72	4618.72	0.09	-0.165	0.000	0.606
10.00	-25.28	-27.63	0.00	-2630.6	0.00	2630.65	4140.37	2070.19	8899.17	4456.20	0.35	-0.332	0.000	0.597
15.00	-24.13	-27.15	0.00	-2492.4	0.00	2492.49	4082.82	2041.41	8576.63	4294.69	0.79	-0.502	0.000	0.586
20.00	-23.00	-26.65	0.00	-2356.7	0.00	2356.72	4023.63	2011.81	8256.33	4134.30	1.41	-0.674	0.000	0.576
25.00	-21.90	-26.14	0.00	-2223.4	0.00	2223.46	3962.80	1981.40	7938.51	3975.15	2.21	-0.848	0.000	0.565
30.00	-20.83	-25.61	0.00	-2092.7	0.00	2092.78	3900.33	1950.16	7623.41	3817.37	3.19	-1.024	0.000	0.554
35.00	-19.78	-25.07	0.00	-1964.7	0.00	1964.76	3836.22	1918.11	7311.28	3661.07	4.36	-1.203	0.000	0.542
40.00	-18.76	-24.51	0.00	-1839.4	0.00	1839.42	3770.47	1885.24	7002.35	3506.38	5.72	-1.383	0.000	0.530
42.91	-18.18	-24.19	0.00	-1768.0	0.00	1768.02	3731.41	1865.70	6823.91	3417.03	6.60	-1.490	0.000	0.522
45.00	-17.47	-23.96	0.00	-1717.5	0.00	1717.55	3703.09	1851.54	6696.86	3353.41	7.26	-1.568	0.000	0.517
49.08	-16.14	-23.47	0.00	-1619.8	0.00	1619.80	2883.58	1441.79	5189.66	2598.69	8.67	-1.719	0.000	0.629
50.00	-15.95	-23.39	0.00	-1598.2	0.00	1598.21	2874.90	1437.45	5148.29	2577.97	9.01	-1.754	0.000	0.626
55.00	-15.10	-22.84	0.00	-1481.2	0.00	1481.25	2826.79	1413.40	4924.46	2465.89	10.96	-1.966	0.000	0.606
60.00	-14.28	-22.29	0.00	-1367.0	0.00	1367.05	2777.04	1388.52	4702.55	2354.77	13.13	-2.178	0.000	0.586
65.00	-13.47	-21.74	0.00	-1255.6	0.00	1255.60	2725.66	1362.83	4482.79	2244.72	15.53	-2.391	0.000	0.565
70.00	-12.69	-21.19	0.00	-1146.9	0.00	1146.91	2672.63	1336.31	4265.41	2135.88	18.14	-2.604	0.000	0.542
75.00	-11.96	-20.64	0.00	-1040.9	0.00	1040.95	2617.96	1308.98	4050.67	2028.35	20.98	-2.815	0.000	0.518
76.87	-11.67	-20.44	0.00	-1002.2	0.00	1002.29	2597.06	1298.53	3970.94	1988.42	22.11	-2.897	0.000	0.509
80.00	-10.93	-20.08	0.00	-938.38	0.00	938.38	2561.66	1280.83	3838.80	1922.25	24.05	-3.030	0.000	0.493
82.12	-10.43	-19.85	0.00	-895.74	0.00	895.74	1893.43	946.71	2847.18	1425.71	25.41	-3.121	0.000	0.634
85.00	-10.06	-19.55	0.00	-838.65	0.00	838.65	1872.76	936.38	2763.64	1383.87	27.33	-3.243	0.000	0.612
90.00	-9.45	-19.03	0.00	-740.90	0.00	740.90	1835.56	917.78	2619.34	1311.62	30.86	-3.485	0.000	0.570
95.00	-8.87	-18.51	0.00	-645.75	0.00	645.75	1796.72	898.36	2476.41	1240.05	34.63	-3.721	0.000	0.526
100.00	-8.30	-18.01	0.00	-553.19	0.00	553.19	1756.24	878.12	2335.09	1169.28	38.65	-3.946	0.000	0.478
105.00	-7.76	-17.50	0.00	-463.16	0.00	463.16	1714.12	857.06	2195.60	1099.43	42.90	-4.159	0.000	0.426
110.00	-7.24	-17.01	0.00	-375.64	0.00	375.64	1670.37	835.18	2058.21	1030.63	47.36	-4.355	0.000	0.369
115.00	-6.75	-16.53	0.00	-290.57	0.00	290.57	1624.97	812.48	1923.13	963.00	52.01	-4.531	0.000	0.306
120.00	-6.29	-16.05	0.00	-207.92	0.00	207.92	1577.93	788.97	1790.62	896.64	56.84	-4.678	0.000	0.236
122.04	-6.10	-15.87	0.00	-175.23	0.00	175.23	1558.31	779.15	1737.43	870.01	58.84	-4.731	0.000	0.206
125.00	-5.69	-15.58	0.00	-128.21	0.00	128.21	1529.26	764.63	1660.91	831.69	61.80	-4.794	0.000	0.158
125.95	-5.56	-15.49	0.00	-113.36	0.00	113.36	1048.18	524.09	1150.34	576.03	62.76	-4.812	0.000	0.203
127.00	-3.28	-9.76	0.00	-97.16	0.00	97.16	1042.37	521.19	1133.34	567.51	63.81	-4.829	0.000	0.175
128.00	-3.18	-8.66	0.00	-87.40	0.00	87.40	1036.75	518.37	1117.13	559.39	64.83	-4.848	0.000	0.160
130.00	-3.06	-8.49	0.00	-70.07	0.00	70.07	1025.31	512.65	1084.83	543.22	66.86	-4.881	0.000	0.132
135.00	-2.77	-8.05	0.00	-27.65	0.00	27.65	995.56	497.78	1004.87	503.18	72.00	-4.935	0.000	0.058
137.00	-0.51	-1.16	0.00	-11.55	0.00	11.55	983.21	491.60	973.24	487.34	74.07	-4.945	0.000	0.024
140.00	-0.39	-0.92	0.00	-8.06	0.00	8.06	964.18	482.09	926.23	463.80	77.18	-4.953	0.000	0.018
145.00	-0.21	-0.52	0.00	-3.46	0.00	3.46	931.15	465.58	849.16	425.21	82.36	-4.962	0.000	0.008
150.00	0.00	-0.50	0.00	-0.85	0.00	0.85	896.49	448.25	773.89	387.52	87.55	-4.966	0.000	0.002

Wind Loading - Shaft

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 20	

Tower Engineering Solutions

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	5.168	5.68	0.00	1.200	1.468	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.168	5.68	0.00	1.200	1.700	5.00	24.438	29.33	166.7	591.3	1904.4
10.00		1.00	0.85	5.168	5.68	0.00	1.200	1.800	5.00	24.024	28.83	163.9	613.8	1898.3
15.00		1.00	0.87	5.266	5.79	0.00	1.200	1.866	5.00	23.581	28.30	163.9	623.4	1879.3
20.00		1.00	0.92	5.568	6.12	0.00	1.200	1.916	5.00	23.125	27.75	170.0	626.6	1854.0
25.00		1.00	0.96	5.818	6.40	0.00	1.200	1.957	5.00	22.662	27.19	174.0	625.9	1824.7
30.00		1.00	0.99	6.034	6.64	0.00	1.200	1.991	5.00	22.192	26.63	176.8	622.6	1792.8
35.00		1.00	1.02	6.224	6.85	0.00	1.200	2.020	5.00	21.719	26.06	178.4	617.3	1758.9
40.00		1.00	1.05	6.394	7.03	0.00	1.200	2.046	5.00	21.244	25.49	179.3	610.5	1723.6
42.91	Bot - Section 2	1.00	1.07	6.486	7.13	0.00	1.200	2.060	2.91	12.155	14.59	104.1	353.1	988.5
45.00		1.00	1.08	6.549	7.20	0.00	1.200	2.070	2.09	8.716	10.46	75.4	254.8	1084.0
49.08	Top - Section 1	1.00	1.10	6.666	7.33	0.00	1.200	2.087	4.08	16.804	20.16	147.9	492.4	2087.3
50.00		1.00	1.10	6.692	7.36	0.00	1.200	2.091	0.92	3.744	4.49	33.1	110.7	273.4
55.00		1.00	1.12	6.823	7.51	0.00	1.200	2.110	5.00	20.069	24.08	180.8	592.1	1462.1
60.00		1.00	1.14	6.946	7.64	0.00	1.200	2.128	5.00	19.586	23.50	179.6	581.7	1427.9
65.00		1.00	1.16	7.062	7.77	0.00	1.200	2.145	5.00	19.102	22.92	178.1	570.6	1393.0
70.00		1.00	1.18	7.170	7.89	0.00	1.200	2.161	5.00	18.618	22.34	176.2	559.1	1357.6
75.00		1.00	1.20	7.273	8.00	0.00	1.200	2.175	5.00	18.132	21.76	174.1	547.0	1321.8
76.87	Bot - Section 3	1.00	1.20	7.310	8.04	0.00	1.200	2.181	1.87	6.667	8.00	64.3	203.2	487.4
80.00		1.00	1.21	7.371	8.11	0.00	1.200	2.189	3.13	11.109	13.33	108.1	338.6	1184.5
82.12	Top - Section 2	1.00	1.22	7.411	8.15	0.00	1.200	2.195	2.12	7.435	8.92	72.7	227.6	792.6
85.00		1.00	1.23	7.464	8.21	0.00	1.200	2.202	2.88	9.933	11.92	97.9	304.1	641.7
90.00		1.00	1.24	7.552	8.31	0.00	1.200	2.215	5.00	16.884	20.26	168.3	515.4	1087.2
95.00		1.00	1.26	7.637	8.40	0.00	1.200	2.227	5.00	16.396	19.68	165.3	501.9	1054.6
100.00		1.00	1.27	7.719	8.49	0.00	1.200	2.238	5.00	15.908	19.09	162.1	488.1	1021.8
105.00		1.00	1.28	7.798	8.58	0.00	1.200	2.249	5.00	15.419	18.50	158.7	474.1	988.7
110.00		1.00	1.29	7.873	8.66	0.00	1.200	2.259	5.00	14.930	17.92	155.2	459.7	955.3
115.00		1.00	1.31	7.946	8.74	0.00	1.200	2.269	5.00	14.441	17.33	151.5	445.2	921.7
120.00		1.00	1.32	8.017	8.82	0.00	1.200	2.278	5.00	13.952	16.74	147.6	430.4	887.8
122.04	Bot - Section 4	1.00	1.32	8.045	8.85	0.00	1.200	2.282	2.04	5.542	6.65	58.8	172.8	353.7
125.00		1.00	1.33	8.085	8.89	0.00	1.200	2.288	2.96	8.012	9.61	85.5	249.4	703.2
125.95	Top - Section 3	1.00	1.33	8.098	8.91	0.00	1.200	2.289	0.95	2.541	3.05	27.2	79.7	223.2
127.00	Appurtenance(s)	1.00	1.33	8.112	8.92	0.00	1.200	2.291	1.05	2.769	3.32	29.7	86.8	154.4
128.00	Appurtenance(s)	1.00	1.34	8.125	8.94	0.00	1.200	2.293	1.00	2.625	3.15	28.2	82.3	146.3
130.00		1.00	1.34	8.152	8.97	0.00	1.200	2.297	2.00	5.192	6.23	55.9	162.2	288.5
135.00		1.00	1.35	8.216	9.04	0.00	1.200	2.305	5.00	12.640	15.17	137.1	390.3	695.8
137.00	Appurtenance(s)	1.00	1.36	8.241	9.07	0.00	1.200	2.308	2.00	4.918	5.90	53.5	153.6	271.8
140.00		1.00	1.36	8.278	9.11	0.00	1.200	2.313	3.00	7.230	8.68	79.0	224.8	397.9
145.00		1.00	1.37	8.339	9.17	0.00	1.200	2.321	5.00	11.658	13.99	128.3	359.0	636.0
150.00	Appurtenance(s)	1.00	1.38	8.398	9.24	0.00	1.200	2.329	5.00	11.167	13.40	123.8	343.2	605.9
								Totals:	**150.00**			**4,880.7**		**40,531.3**

Discrete Appurtenance Forces

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 21	

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	150.00	Lightning Rod 1"x10'	1	8.467	9.314	1.00	1.00	8.05	140.25	0.000	6.000	74.98	0.00	449.86
2	137.00	Low Profile Mount	1	8.241	9.065	1.00	1.00	98.94	4200.37	0.000	0.000	896.91	0.00	0.00
3	137.00	Ericsson 4449 B71+B12	3	8.241	9.065	0.54	0.80	3.79	556.30	0.000	0.000	34.38	0.00	0.00
4	137.00	Ericsson KRY 112 489/2	3	8.241	9.065	0.54	0.80	2.47	117.01	0.000	0.000	22.38	0.00	0.00
5	137.00	APXVAARR24_43-U-NA2	3	8.241	9.065	0.56	0.80	38.28	2238.22	0.000	0.000	346.99	0.00	0.00
6	137.00	APX16DWV-16DWVS-E-A	3	8.241	9.065	0.58	0.80	16.40	510.53	0.000	0.000	148.67	0.00	0.00
7	137.00	Kathrein 782 11056 Bias	3	8.241	9.065	0.54	0.80	1.30	0.61	0.000	0.000	11.82	0.00	0.00
8	137.00	RR90-19-XXDPQ	3	8.241	9.065	0.55	0.80	16.37	845.78	0.000	0.000	148.39	0.00	0.00
9	137.00	KRY 112 144/1	3	8.241	9.065	0.54	0.80	1.67	73.08	0.000	0.000	15.14	0.00	0.00
10	128.00	LPA-80080-6CF	6	8.125	8.938	0.66	0.75	24.30	1189.16	0.000	0.000	217.21	0.00	0.00
11	127.00	Low Profile Platform	1	8.112	8.923	1.00	1.00	45.19	2983.86	0.000	0.000	403.22	0.00	0.00
12	127.00	mods	1	8.112	8.923	1.00	1.00	29.68	1931.63	0.000	0.000	264.85	0.00	0.00
13	127.00	RF4440d-13A	3	8.112	8.923	0.50	0.75	3.99	548.72	0.000	0.000	35.59	0.00	0.00
14	127.00	RF4439d-25A	3	8.112	8.923	0.50	0.75	3.99	628.75	0.000	0.000	35.59	0.00	0.00
15	127.00	MT6407-77A	3	8.112	8.923	0.52	0.75	9.37	788.18	0.000	0.000	83.65	0.00	0.00
16	127.00	MX06FRO660-02	6	8.112	8.923	0.65	0.75	45.83	2552.59	0.000	0.000	408.98	0.00	0.00
17	127.00	DB-T1-6Z-8AB-0Z	2	8.112	8.923	0.68	0.90	8.06	504.42	0.000	0.000	71.93	0.00	0.00
							Totals:		**19,809.47**			**3,220.67**		

Total Applied Force Summary

Structure:	CT13612-A-SBA		**Code:**	EIA/TIA-222-G	10/1/2021
Site Name:	Ingalls		**Exposure:**	C	
Height:	150.00 (ft)		**Crest Height:**	0.00	
Base Elev:	1.500 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 22

Tower Engineering Solutions

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		166.71	1904.37	0.00	0.00
10.00		163.88	1985.84	0.00	0.00
15.00		163.91	2101.28	0.00	0.00
20.00		169.95	2078.41	0.00	0.00
25.00		174.04	2051.21	0.00	0.00
30.00		176.75	2021.07	0.00	0.00
35.00		178.43	1988.77	0.00	0.00
40.00		179.31	1954.81	0.00	0.00
42.91		104.07	1123.64	0.00	0.00
45.00		75.35	1181.06	0.00	0.00
49.08		147.86	2277.87	0.00	0.00
50.00		33.07	316.40	0.00	0.00
55.00		180.76	1696.86	0.00	0.00
60.00		179.59	1663.63	0.00	0.00
65.00		178.06	1629.73	0.00	0.00
70.00		176.21	1595.23	0.00	0.00
75.00		174.08	1560.20	0.00	0.00
76.87		64.33	576.80	0.00	0.00
80.00		108.08	1334.09	0.00	0.00
82.12		72.73	894.27	0.00	0.00
85.00		97.86	779.76	0.00	0.00
90.00		168.32	1327.86	0.00	0.00
95.00		165.30	1296.00	0.00	0.00
100.00		162.09	1263.81	0.00	0.00
105.00		158.71	1231.32	0.00	0.00
110.00		155.17	1198.55	0.00	0.00
115.00		151.48	1165.53	0.00	0.00
120.00		147.64	1132.26	0.00	0.00
122.04		58.85	453.36	0.00	0.00
125.00		85.51	848.38	0.00	0.00
125.95		27.16	269.91	0.00	0.00
127.00	(19) attachments	1333.45	10143.86	0.00	0.00
128.00	(6) attachments	245.37	1374.39	0.00	0.00
130.00		55.87	366.40	0.00	0.00
135.00		137.08	891.17	0.00	0.00
137.00	(22) attachments	1678.17	8891.98	0.00	0.00
140.00		79.00	447.36	0.00	0.00
145.00		128.33	718.97	0.00	0.00
150.00	(1) attachments	198.77	829.56	0.00	449.86
	Totals:	**8,101.33**	**66,565.97**	**0.00**	**449.86**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 23	

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
10.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.168	0.00	12.23
10.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	5.168	0.00	9.64
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	5.266	0.00	32.21
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	5.266	0.00	25.69
20.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	5.568	0.00	33.49
20.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	5.568	0.00	26.92
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	5.818	0.00	34.54
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	5.818	0.00	27.94
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.034	0.00	35.45
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.034	0.00	28.81
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.224	0.00	36.25
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.224	0.00	29.58
40.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.394	0.00	36.96
40.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.394	0.00	30.26
42.91	Safety Cable	Yes	2.91	0.000	0.00	0.00	0.00	0.000	0.000	6.486	0.00	21.76
42.91	Safety Cable	Yes	2.91	0.000	0.00	0.00	0.00	0.000	0.000	6.486	0.00	17.85
45.00	Safety Cable	Yes	2.09	0.000	0.00	0.00	0.00	0.000	0.000	6.549	0.00	15.69
45.00	Safety Cable	Yes	2.09	0.000	0.00	0.00	0.00	0.000	0.000	6.549	0.00	12.89
49.08	Safety Cable	Yes	4.08	0.000	0.00	0.00	0.00	0.000	0.000	6.666	0.00	31.08
49.08	Safety Cable	Yes	4.08	0.000	0.00	0.00	0.00	0.000	0.000	6.666	0.00	25.58
50.00	Safety Cable	Yes	0.92	0.000	0.00	0.00	0.00	0.000	0.000	6.692	0.00	7.03
50.00	Safety Cable	Yes	0.92	0.000	0.00	0.00	0.00	0.000	0.000	6.692	0.00	5.79
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.823	0.00	38.74
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.823	0.00	31.98
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.946	0.00	39.25
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.946	0.00	32.48
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.062	0.00	39.73
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.062	0.00	32.94
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.170	0.00	40.18
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.170	0.00	33.37
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.273	0.00	40.60
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.273	0.00	33.78
76.87	Safety Cable	Yes	1.87	0.000	0.00	0.00	0.00	0.000	0.000	7.310	0.00	15.27
76.87	Safety Cable	Yes	1.87	0.000	0.00	0.00	0.00	0.000	0.000	7.310	0.00	12.71
80.00	Safety Cable	Yes	3.13	0.000	0.00	0.00	0.00	0.000	0.000	7.371	0.00	25.64
80.00	Safety Cable	Yes	3.13	0.000	0.00	0.00	0.00	0.000	0.000	7.371	0.00	21.37
82.12	Safety Cable	Yes	2.12	0.000	0.00	0.00	0.00	0.000	0.000	7.411	0.00	17.48
82.12	Safety Cable	Yes	2.12	0.000	0.00	0.00	0.00	0.000	0.000	7.411	0.00	14.58
85.00	Safety Cable	Yes	2.88	0.000	0.00	0.00	0.00	0.000	0.000	7.464	0.00	23.81
85.00	Safety Cable	Yes	2.88	0.000	0.00	0.00	0.00	0.000	0.000	7.464	0.00	19.87
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.552	0.00	41.75
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.552	0.00	34.89
95.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.637	0.00	42.10
95.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.637	0.00	35.23
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.719	0.00	42.43
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.719	0.00	35.55
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.798	0.00	42.76

Linear Appurtenance Segment Forces (Factored)

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 24	

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.798	0.00	35.86
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.873	0.00	43.06
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.873	0.00	36.16
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.946	0.00	43.36
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.946	0.00	36.45
120.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.017	0.00	43.65
120.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.017	0.00	36.73
122.04	Safety Cable	Yes	2.04	0.000	0.00	0.00	0.00	0.000	0.000	8.045	0.00	17.83
122.04	Safety Cable	Yes	2.04	0.000	0.00	0.00	0.00	0.000	0.000	8.045	0.00	15.01
125.00	Safety Cable	Yes	2.96	0.000	0.00	0.00	0.00	0.000	0.000	8.085	0.00	26.04
125.00	Safety Cable	Yes	2.96	0.000	0.00	0.00	0.00	0.000	0.000	8.085	0.00	21.93
125.95	Safety Cable	Yes	0.95	0.000	0.00	0.00	0.00	0.000	0.000	8.098	0.00	8.39
125.95	Safety Cable	Yes	0.95	0.000	0.00	0.00	0.00	0.000	0.000	8.098	0.00	7.06
127.00	Safety Cable	Yes	1.05	0.000	0.00	0.00	0.00	0.000	0.000	8.112	0.00	9.22
127.00	Safety Cable	Yes	1.05	0.000	0.00	0.00	0.00	0.000	0.000	8.112	0.00	7.77
128.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	8.125	0.00	8.82
128.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	8.125	0.00	7.43
130.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.152	0.00	17.68
130.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.152	0.00	14.91
135.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.216	0.00	44.46
135.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.216	0.00	37.52
137.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.241	0.00	17.83
137.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.241	0.00	15.05
140.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	8.278	0.00	26.83
140.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	8.278	0.00	22.66
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.339	0.00	44.97
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.339	0.00	38.00
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.398	0.00	45.21
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.398	0.00	38.24
									Totals:		**0.0**	**2,094.2**

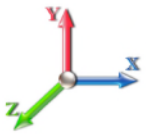
Calculated Forces

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 25	

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 24

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-66.56	-8.13	0.00	-845.79	0.00	845.79	4250.57	2125.28	9550.04	4782.12	0.00	0.000	0.000	0.193
5.00	-64.65	-8.02	0.00	-805.14	0.00	805.14	4196.29	2098.14	9223.72	4618.72	0.03	-0.048	0.000	0.190
10.00	-62.66	-7.90	0.00	-765.06	0.00	765.06	4140.37	2070.19	8899.17	4456.20	0.10	-0.097	0.000	0.187
15.00	-60.55	-7.79	0.00	-725.54	0.00	725.54	4082.82	2041.41	8576.63	4294.69	0.23	-0.146	0.000	0.184
20.00	-58.47	-7.66	0.00	-686.61	0.00	686.61	4023.63	2011.81	8256.33	4134.30	0.41	-0.196	0.000	0.181
25.00	-56.41	-7.53	0.00	-648.29	0.00	648.29	3962.80	1981.40	7938.51	3975.15	0.64	-0.247	0.000	0.177
30.00	-54.38	-7.39	0.00	-610.63	0.00	610.63	3900.33	1950.16	7623.41	3817.37	0.93	-0.298	0.000	0.174
35.00	-52.39	-7.25	0.00	-573.66	0.00	573.66	3836.22	1918.11	7311.28	3661.07	1.27	-0.350	0.000	0.170
40.00	-50.43	-7.10	0.00	-537.40	0.00	537.40	3770.47	1885.24	7002.35	3506.38	1.66	-0.403	0.000	0.167
42.91	-49.30	-7.01	0.00	-516.73	0.00	516.73	3731.41	1865.70	6823.91	3417.03	1.92	-0.434	0.000	0.164
45.00	-48.12	-6.95	0.00	-502.11	0.00	502.11	3703.09	1851.54	6696.86	3353.41	2.11	-0.457	0.000	0.163
49.08	-45.84	-6.81	0.00	-473.74	0.00	473.74	2883.58	1441.79	5189.66	2598.69	2.52	-0.501	0.000	0.198
50.00	-45.52	-6.80	0.00	-467.48	0.00	467.48	2874.90	1437.45	5148.29	2577.97	2.62	-0.511	0.000	0.197
55.00	-43.82	-6.65	0.00	-433.49	0.00	433.49	2826.79	1413.40	4924.46	2465.89	3.19	-0.573	0.000	0.191
60.00	-42.15	-6.50	0.00	-400.24	0.00	400.24	2777.04	1388.52	4702.55	2354.77	3.82	-0.635	0.000	0.185
65.00	-40.51	-6.35	0.00	-367.74	0.00	367.74	2725.66	1362.83	4482.79	2244.72	4.52	-0.698	0.000	0.179
70.00	-38.91	-6.19	0.00	-336.01	0.00	336.01	2672.63	1336.31	4265.41	2135.88	5.29	-0.760	0.000	0.172
75.00	-37.35	-6.02	0.00	-305.06	0.00	305.06	2617.96	1308.98	4050.67	2028.35	6.12	-0.822	0.000	0.165
76.87	-36.77	-5.97	0.00	-293.77	0.00	293.77	2597.06	1298.53	3970.94	1988.42	6.45	-0.846	0.000	0.162
80.00	-35.44	-5.86	0.00	-275.10	0.00	275.10	2561.66	1280.83	3838.80	1922.25	7.01	-0.885	0.000	0.157
82.12	-34.54	-5.80	0.00	-262.65	0.00	262.65	1893.43	946.71	2847.18	1425.71	7.41	-0.912	0.000	0.203
85.00	-33.76	-5.72	0.00	-245.98	0.00	245.98	1872.76	936.38	2763.64	1383.87	7.97	-0.947	0.000	0.196
90.00	-32.43	-5.57	0.00	-217.40	0.00	217.40	1835.56	917.78	2619.34	1311.62	9.00	-1.019	0.000	0.183
95.00	-31.13	-5.41	0.00	-189.57	0.00	189.57	1796.72	898.36	2476.41	1240.05	10.11	-1.088	0.000	0.170
100.00	-29.86	-5.26	0.00	-162.51	0.00	162.51	1756.24	878.12	2335.09	1169.28	11.28	-1.154	0.000	0.156
105.00	-28.63	-5.11	0.00	-136.21	0.00	136.21	1714.12	857.06	2195.60	1099.43	12.53	-1.216	0.000	0.141
110.00	-27.43	-4.95	0.00	-110.68	0.00	110.68	1670.37	835.18	2058.21	1030.63	13.83	-1.274	0.000	0.124
115.00	-26.26	-4.79	0.00	-85.93	0.00	85.93	1624.97	812.48	1923.13	963.00	15.20	-1.326	0.000	0.105
120.00	-25.13	-4.63	0.00	-61.96	0.00	61.96	1577.93	788.97	1790.62	896.64	16.61	-1.370	0.000	0.085
122.04	-24.68	-4.57	0.00	-52.52	0.00	52.52	1558.31	779.15	1737.43	870.01	17.20	-1.385	0.000	0.076
125.00	-23.83	-4.47	0.00	-38.97	0.00	38.97	1529.26	764.63	1660.91	831.69	18.06	-1.405	0.000	0.062
125.95	-23.56	-4.44	0.00	-34.71	0.00	34.71	1048.18	524.09	1150.34	576.03	18.34	-1.410	0.000	0.083
127.00	-13.45	-2.86	0.00	-30.07	0.00	30.07	1042.37	521.19	1133.34	567.51	18.65	-1.415	0.000	0.066
128.00	-12.08	-2.58	0.00	-27.21	0.00	27.21	1036.75	518.37	1117.13	559.39	18.95	-1.421	0.000	0.060
130.00	-11.72	-2.52	0.00	-22.05	0.00	22.05	1025.31	512.65	1084.83	543.22	19.55	-1.431	0.000	0.052
135.00	-10.83	-2.36	0.00	-9.47	0.00	9.47	995.56	497.78	1004.87	503.18	21.06	-1.449	0.000	0.030
137.00	-1.98	-0.46	0.00	-4.75	0.00	4.75	983.21	491.60	973.24	487.34	21.67	-1.453	0.000	0.012
140.00	-1.54	-0.37	0.00	-3.38	0.00	3.38	964.18	482.09	926.23	463.80	22.58	-1.456	0.000	0.009
145.00	-0.82	-0.22	0.00	-1.55	0.00	1.55	931.15	465.58	849.16	425.21	24.11	-1.460	0.000	0.005
150.00	0.00	-0.20	0.00	-0.45	0.00	0.45	896.49	448.25	773.89	387.52	25.64	-1.461	0.000	0.001

Seismic Segment Forces (Factored)

Structure:	CT13612-A-SBA		**Code:**	EIA/TIA-222-G	10/1/2021
Site Name:	Ingalls		**Exposure:**	C	
Height:	150.00 (ft)		**Crest Height:**	0.00	
Base Elev:	1.500 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 26

Load Case:	1.2D + 1.0E							**Iterations**	21
Gust Response Factor	1.10				**Sds**	0.18		**Ss**	0.17
Dead Load Factor	1.20	**Seismic Load Factor**	1.00		**Sd1**	0.10		**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.41		**SA**	0.04	**Seismic Importance Factor**		1.00

Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.01	0.01	0.00	
5.00		1094.2	0.00	0.04	0.02	19.76	
10.00		1070.4	0.01	0.06	0.03	25.85	
15.00		1046.6	0.02	0.07	0.04	28.58	
20.00		1022.8	0.04	0.07	0.04	29.68	
25.00		998.99	0.06	0.07	0.04	30.05	
30.00		975.17	0.08	0.07	0.04	30.16	
35.00		951.36	0.11	0.07	0.04	30.17	
40.00		927.54	0.14	0.07	0.03	30.07	
42.91	Bot - Section 2	529.47	0.16	0.07	0.03	17.33	
45.00		690.99	0.18	0.07	0.03	22.71	
49.08	Top - Section 1	1329.0	0.21	0.06	0.02	43.59	
50.00		135.56	0.22	0.06	0.02	4.43	
55.00		725.02	0.26	0.05	0.02	22.83	
60.00		705.17	0.31	0.04	0.01	20.23	
65.00		685.32	0.36	0.03	0.01	16.31	
70.00		665.48	0.42	0.01	0.01	11.02	
75.00		645.63	0.48	-0.01	0.01	4.65	
76.87	Bot - Section 3	236.79	0.51	-0.02	0.01	0.78	
80.00		704.95	0.55	-0.03	0.01	-2.38	
82.12	Top - Section 2	470.77	0.58	-0.04	0.01	-3.71	
85.00		281.32	0.62	-0.06	0.02	-3.84	
90.00		476.47	0.69	-0.08	0.03	-10.45	
95.00		460.59	0.77	-0.10	0.04	-12.36	
100.00		444.71	0.85	-0.12	0.07	-12.23	
105.00		428.84	0.93	-0.12	0.10	-10.09	
110.00		412.96	1.02	-0.10	0.14	-6.10	
115.00		397.08	1.12	-0.06	0.20	-0.48	
120.00		381.21	1.22	0.02	0.27	6.54	
122.04	Bot - Section 4	150.73	1.26	0.06	0.30	3.92	
125.00		378.18	1.32	0.15	0.35	15.26	
125.95	Top - Section 3	119.59	1.34	0.18	0.37	5.42	
127.00	Appurtenance(s)	3036.6	1.36	0.21	0.39	154.86	
128.00	Appurtenance(s)	179.30	1.38	0.25	0.41	10.15	
130.00		105.18	1.42	0.33	0.46	7.20	
135.00		254.61	1.53	0.59	0.58	25.83	
137.00	Appurtenance(s)	3127.2	1.58	0.72	0.64	362.96	
140.00		144.19	1.65	0.94	0.74	20.12	
145.00		230.80	1.77	1.39	0.92	42.16	
150.00	Appurtenance(s)	280.89	1.89	1.98	1.14	64.92	
	Totals:	**26,901.9**				**1,045.9**	**Total Wind:** **28,545.1**

Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 27	

Tower Engineering Solutions

Load Case:	1.2D + 1.0E							**Iterations**	21
Gust Response Factor	1.10			**Sds**	0.18			**Ss**	0.17
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.10			**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.41	**SA**	0.04	**Seismic Importance Factor**			1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-36.64	-1.11	0.00	-115.41	0.00	115.41	4250.57	2125.28	9550.04	4782.12		0.00	0.00	0.033
5.00	-35.32	-1.09	0.00	-109.87	0.00	109.87	4196.29	2098.14	9223.72	4618.72		0.00	-0.01	0.032
10.00	-33.97	-1.07	0.00	-104.41	0.00	104.41	4140.37	2070.19	8899.17	4456.20		0.01	-0.01	0.032
15.00	-32.54	-1.05	0.00	-99.05	0.00	99.05	4082.82	2041.41	8576.63	4294.69		0.03	-0.02	0.031
20.00	-31.14	-1.02	0.00	-93.83	0.00	93.83	4023.63	2011.81	8256.33	4134.30		0.06	-0.03	0.030
25.00	-29.77	-0.99	0.00	-88.73	0.00	88.73	3962.80	1981.40	7938.51	3975.15		0.09	-0.03	0.030
30.00	-28.43	-0.96	0.00	-83.77	0.00	83.77	3900.33	1950.16	7623.41	3817.37		0.13	-0.04	0.029
35.00	-27.12	-0.94	0.00	-78.95	0.00	78.95	3836.22	1918.11	7311.28	3661.07		0.17	-0.05	0.029
40.00	-25.83	-0.91	0.00	-74.27	0.00	74.27	3770.47	1885.24	7002.35	3506.38		0.23	-0.06	0.028
42.91	-25.10	-0.89	0.00	-71.63	0.00	71.63	3731.41	1865.70	6823.91	3417.03		0.26	-0.06	0.028
45.00	-24.19	-0.87	0.00	-69.77	0.00	69.77	3703.09	1851.54	6696.86	3353.41		0.29	-0.06	0.027
49.08	-22.46	-0.83	0.00	-66.22	0.00	66.22	2883.58	1441.79	5189.66	2598.69		0.35	-0.07	0.033
50.00	-22.27	-0.82	0.00	-65.46	0.00	65.46	2874.90	1437.45	5148.29	2577.97		0.36	-0.07	0.033
55.00	-21.22	-0.80	0.00	-61.34	0.00	61.34	2826.79	1413.40	4924.46	2465.89		0.44	-0.08	0.032
60.00	-20.20	-0.78	0.00	-57.33	0.00	57.33	2777.04	1388.52	4702.55	2354.77		0.52	-0.09	0.032
65.00	-19.21	-0.77	0.00	-53.42	0.00	53.42	2725.66	1362.83	4482.79	2244.72		0.62	-0.10	0.031
70.00	-18.24	-0.76	0.00	-49.57	0.00	49.57	2672.63	1336.31	4265.41	2135.88		0.73	-0.11	0.030
75.00	-17.29	-0.75	0.00	-45.78	0.00	45.78	2617.96	1308.98	4050.67	2028.35		0.84	-0.12	0.029
76.87	-16.94	-0.75	0.00	-44.37	0.00	44.37	2597.06	1298.53	3970.94	1988.42		0.89	-0.12	0.029
80.00	-15.99	-0.75	0.00	-42.01	0.00	42.01	2561.66	1280.83	3838.80	1922.25		0.97	-0.12	0.028
82.12	-15.35	-0.75	0.00	-40.41	0.00	40.41	1893.43	946.71	2847.18	1425.71		1.03	-0.13	0.036
85.00	-14.92	-0.75	0.00	-38.24	0.00	38.24	1872.76	936.38	2763.64	1383.87		1.10	-0.13	0.036
90.00	-14.17	-0.76	0.00	-34.47	0.00	34.47	1835.56	917.78	2619.34	1311.62		1.25	-0.15	0.034
95.00	-13.45	-0.76	0.00	-30.69	0.00	30.69	1796.72	898.36	2476.41	1240.05		1.41	-0.16	0.032
100.00	-12.74	-0.76	0.00	-26.91	0.00	26.91	1756.24	878.12	2335.09	1169.28		1.58	-0.17	0.030
105.00	-12.06	-0.76	0.00	-23.12	0.00	23.12	1714.12	857.06	2195.60	1099.43		1.76	-0.18	0.028
110.00	-11.39	-0.76	0.00	-19.34	0.00	19.34	1670.37	835.18	2058.21	1030.63		1.95	-0.19	0.026
115.00	-10.74	-0.76	0.00	-15.56	0.00	15.56	1624.97	812.48	1923.13	963.00		2.15	-0.20	0.023
120.00	-10.11	-0.75	0.00	-11.77	0.00	11.77	1577.93	788.97	1790.62	896.64		2.36	-0.21	0.020
122.04	-9.86	-0.74	0.00	-10.25	0.00	10.25	1558.31	779.15	1737.43	870.01		2.45	-0.21	0.018
125.00	-9.30	-0.73	0.00	-8.04	0.00	8.04	1529.26	764.63	1660.91	831.69		2.58	-0.21	0.016
125.95	-9.13	-0.72	0.00	-7.35	0.00	7.35	1048.18	524.09	1150.34	576.03		2.63	-0.21	0.021
127.00	-5.45	-0.55	0.00	-6.60	0.00	6.60	1042.37	521.19	1133.34	567.51		2.67	-0.21	0.017
128.00	-5.21	-0.54	0.00	-6.04	0.00	6.04	1036.75	518.37	1117.13	559.39		2.72	-0.22	0.016
130.00	-5.03	-0.53	0.00	-4.96	0.00	4.96	1025.31	512.65	1084.83	543.22		2.81	-0.22	0.014
135.00	-4.61	-0.51	0.00	-2.28	0.00	2.28	995.56	497.78	1004.87	503.18		3.04	-0.22	0.009
137.00	-0.81	-0.13	0.00	-1.27	0.00	1.27	983.21	491.60	973.24	487.34		3.13	-0.22	0.003
140.00	-0.63	-0.11	0.00	-0.88	0.00	0.88	964.18	482.09	926.23	463.80		3.27	-0.22	0.003
145.00	-0.34	-0.07	0.00	-0.33	0.00	0.33	931.15	465.58	849.16	425.21		3.51	-0.22	0.001
150.00	0.00	-0.06	0.00	0.00	0.00	0.00	896.49	448.25	773.89	387.52		3.74	-0.22	0.000

Seismic Segment Forces (Factored)

Structure:	CT13612-A-SBA		**Code:**	EIA/TIA-222-G	10/1/2021
Site Name:	Ingalls		**Exposure:**	C	
Height:	150.00 (ft)		**Crest Height:**	0.00	
Base Elev:	1.500 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 28

Load Case:	0.9D + 1.0E							**Iterations**	21
Gust Response Factor	1.10				**Sds**	0.18		**Ss**	0.17
Dead Load Factor	0.90	**Seismic Load Factor**	1.00		**Sd1**	0.10		**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.41		**SA**	0.04	**Seismic Importance Factor**		1.00

Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.01	0.01	0.00	
5.00		1094.2	0.00	0.04	0.02	19.76	
10.00		1070.4	0.01	0.06	0.03	25.85	
15.00		1046.6	0.02	0.07	0.04	28.58	
20.00		1022.8	0.04	0.07	0.04	29.68	
25.00		998.99	0.06	0.07	0.04	30.05	
30.00		975.17	0.08	0.07	0.04	30.16	
35.00		951.36	0.11	0.07	0.04	30.17	
40.00		927.54	0.14	0.07	0.03	30.07	
42.91	Bot - Section 2	529.47	0.16	0.07	0.03	17.33	
45.00		690.99	0.18	0.07	0.03	22.71	
49.08	Top - Section 1	1329.0	0.21	0.06	0.02	43.59	
50.00		135.56	0.22	0.06	0.02	4.43	
55.00		725.02	0.26	0.05	0.02	22.83	
60.00		705.17	0.31	0.04	0.01	20.23	
65.00		685.32	0.36	0.03	0.01	16.31	
70.00		665.48	0.42	0.01	0.01	11.02	
75.00		645.63	0.48	-0.01	0.01	4.65	
76.87	Bot - Section 3	236.79	0.51	-0.02	0.01	0.78	
80.00		704.95	0.55	-0.03	0.01	-2.38	
82.12	Top - Section 2	470.77	0.58	-0.04	0.01	-3.71	
85.00		281.32	0.62	-0.06	0.02	-3.84	
90.00		476.47	0.69	-0.08	0.03	-10.45	
95.00		460.59	0.77	-0.10	0.04	-12.36	
100.00		444.71	0.85	-0.12	0.07	-12.23	
105.00		428.84	0.93	-0.12	0.10	-10.09	
110.00		412.96	1.02	-0.10	0.14	-6.10	
115.00		397.08	1.12	-0.06	0.20	-0.48	
120.00		381.21	1.22	0.02	0.27	6.54	
122.04	Bot - Section 4	150.73	1.26	0.06	0.30	3.92	
125.00		378.18	1.32	0.15	0.35	15.26	
125.95	Top - Section 3	119.59	1.34	0.18	0.37	5.42	
127.00	Appurtenance(s)	3036.6	1.36	0.21	0.39	154.86	
128.00	Appurtenance(s)	179.30	1.38	0.25	0.41	10.15	
130.00		105.18	1.42	0.33	0.46	7.20	
135.00		254.61	1.53	0.59	0.58	25.83	
137.00	Appurtenance(s)	3127.2	1.58	0.72	0.64	362.96	
140.00		144.19	1.65	0.94	0.74	20.12	
145.00		230.80	1.77	1.39	0.92	42.16	
150.00	Appurtenance(s)	280.89	1.89	1.98	1.14	64.92	
	Totals:	**26,901.9**				**1,045.9**	**Total Wind:** **28,545.1**

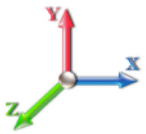
Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 29	

Tower Engineering Solutions

Load Case: 0.9D + 1.0E



Gust Response Factor	1.10			**Sds**	0.18			**Iterations**	21
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.10			**Ss**	0.17
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.41	**SA**	0.04			**S1**	0.06
								Seismic Importance Factor	1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-27.48	-1.11	0.00	-114.44	0.00	114.44	4250.57	2125.28	9550.04	4782.12		0.00	0.00	0.030
5.00	-26.49	-1.09	0.00	-108.90	0.00	108.90	4196.29	2098.14	9223.72	4618.72		0.00	-0.01	0.030
10.00	-25.48	-1.07	0.00	-103.44	0.00	103.44	4140.37	2070.19	8899.17	4456.20		0.01	-0.01	0.029
15.00	-24.41	-1.04	0.00	-98.10	0.00	98.10	4082.82	2041.41	8576.63	4294.69		0.03	-0.02	0.029
20.00	-23.36	-1.01	0.00	-92.89	0.00	92.89	4023.63	2011.81	8256.33	4134.30		0.06	-0.03	0.028
25.00	-22.33	-0.99	0.00	-87.82	0.00	87.82	3962.80	1981.40	7938.51	3975.15		0.09	-0.03	0.028
30.00	-21.32	-0.96	0.00	-82.89	0.00	82.89	3900.33	1950.16	7623.41	3817.37		0.13	-0.04	0.027
35.00	-20.34	-0.93	0.00	-78.09	0.00	78.09	3836.22	1918.11	7311.28	3661.07		0.17	-0.05	0.027
40.00	-19.37	-0.90	0.00	-73.44	0.00	73.44	3770.47	1885.24	7002.35	3506.38		0.23	-0.05	0.026
42.91	-18.82	-0.88	0.00	-70.82	0.00	70.82	3731.41	1865.70	6823.91	3417.03		0.26	-0.06	0.026
45.00	-18.15	-0.86	0.00	-68.97	0.00	68.97	3703.09	1851.54	6696.86	3353.41		0.29	-0.06	0.025
49.08	-16.84	-0.82	0.00	-65.45	0.00	65.45	2883.58	1441.79	5189.66	2598.69		0.34	-0.07	0.031
50.00	-16.70	-0.82	0.00	-64.70	0.00	64.70	2874.90	1437.45	5148.29	2577.97		0.36	-0.07	0.031
55.00	-15.92	-0.79	0.00	-60.62	0.00	60.62	2826.79	1413.40	4924.46	2465.89		0.43	-0.08	0.030
60.00	-15.15	-0.78	0.00	-56.65	0.00	56.65	2777.04	1388.52	4702.55	2354.77		0.52	-0.09	0.030
65.00	-14.41	-0.76	0.00	-52.78	0.00	52.78	2725.66	1362.83	4482.79	2244.72		0.61	-0.10	0.029
70.00	-13.68	-0.75	0.00	-48.98	0.00	48.98	2672.63	1336.31	4265.41	2135.88		0.72	-0.10	0.028
75.00	-12.97	-0.75	0.00	-45.23	0.00	45.23	2617.96	1308.98	4050.67	2028.35		0.83	-0.11	0.027
76.87	-12.71	-0.74	0.00	-43.83	0.00	43.83	2597.06	1298.53	3970.94	1988.42		0.88	-0.12	0.027
80.00	-11.99	-0.74	0.00	-41.50	0.00	41.50	2561.66	1280.83	3838.80	1922.25		0.96	-0.12	0.026
82.12	-11.51	-0.74	0.00	-39.92	0.00	39.92	1893.43	946.71	2847.18	1425.71		1.01	-0.13	0.034
85.00	-11.19	-0.75	0.00	-37.78	0.00	37.78	1872.76	936.38	2763.64	1383.87		1.09	-0.13	0.033
90.00	-10.63	-0.75	0.00	-34.05	0.00	34.05	1835.56	917.78	2619.34	1311.62		1.24	-0.14	0.032
95.00	-10.09	-0.75	0.00	-30.32	0.00	30.32	1796.72	898.36	2476.41	1240.05		1.39	-0.15	0.030
100.00	-9.56	-0.75	0.00	-26.59	0.00	26.59	1756.24	878.12	2335.09	1169.28		1.56	-0.17	0.028
105.00	-9.04	-0.75	0.00	-22.86	0.00	22.86	1714.12	857.06	2195.60	1099.43		1.74	-0.18	0.026
110.00	-8.54	-0.75	0.00	-19.12	0.00	19.12	1670.37	835.18	2058.21	1030.63		1.93	-0.19	0.024
115.00	-8.05	-0.75	0.00	-15.39	0.00	15.39	1624.97	812.48	1923.13	963.00		2.13	-0.19	0.021
120.00	-7.58	-0.74	0.00	-11.65	0.00	11.65	1577.93	788.97	1790.62	896.64		2.34	-0.20	0.018
122.04	-7.39	-0.74	0.00	-10.15	0.00	10.15	1558.31	779.15	1737.43	870.01		2.43	-0.21	0.016
125.00	-6.98	-0.72	0.00	-7.97	0.00	7.97	1529.26	764.63	1660.91	831.69		2.56	-0.21	0.014
125.95	-6.84	-0.71	0.00	-7.29	0.00	7.29	1048.18	524.09	1150.34	576.03		2.60	-0.21	0.019
127.00	-4.09	-0.55	0.00	-6.54	0.00	6.54	1042.37	521.19	1133.34	567.51		2.64	-0.21	0.015
128.00	-3.91	-0.54	0.00	-5.99	0.00	5.99	1036.75	518.37	1117.13	559.39		2.69	-0.21	0.014
130.00	-3.77	-0.53	0.00	-4.92	0.00	4.92	1025.31	512.65	1084.83	543.22		2.78	-0.22	0.013
135.00	-3.45	-0.50	0.00	-2.27	0.00	2.27	995.56	497.78	1004.87	503.18		3.01	-0.22	0.008
137.00	-0.61	-0.13	0.00	-1.26	0.00	1.26	983.21	491.60	973.24	487.34		3.10	-0.22	0.003
140.00	-0.47	-0.11	0.00	-0.87	0.00	0.87	964.18	482.09	926.23	463.80		3.24	-0.22	0.002
145.00	-0.26	-0.07	0.00	-0.33	0.00	0.33	931.15	465.58	849.16	425.21		3.47	-0.22	0.001
150.00	0.00	-0.06	0.00	0.00	0.00	0.00	896.49	448.25	773.89	387.52		3.70	-0.22	0.000

Wind Loading - Shaft

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 30	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	7.442	8.19	257.45	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	7.442	8.19	251.94	0.650	0.000	5.00	23.021	14.96	122.5	0.0	1094.3
10.00		1.00	0.85	7.442	8.19	246.44	0.650	0.000	5.00	22.524	14.64	119.8	0.0	1070.4
15.00		1.00	0.87	7.583	8.34	243.20	0.650	0.000	5.00	22.026	14.32	119.4	0.0	1046.6
20.00		1.00	0.92	8.017	8.82	244.36	0.650	0.000	5.00	21.529	13.99	123.4	0.0	1022.8
25.00		1.00	0.96	8.378	9.22	243.96	0.650	0.000	5.00	21.031	13.67	126.0	0.0	999.0
30.00		1.00	0.99	8.689	9.56	242.49	0.650	0.000	5.00	20.533	13.35	127.6	0.0	975.2
35.00		1.00	1.02	8.962	9.86	240.24	0.650	0.000	5.00	20.036	13.02	128.4	0.0	951.4
40.00		1.00	1.05	9.208	10.13	237.38	0.650	0.000	5.00	19.538	12.70	128.6	0.0	927.5
42.91	Bot - Section 2	1.00	1.07	9.340	10.27	235.49	0.650	0.000	2.91	11.155	7.25	74.5	0.0	529.5
45.00		1.00	1.08	9.431	10.37	234.04	0.650	0.000	2.09	7.996	5.20	53.9	0.0	691.0
49.08	Top - Section 1	1.00	1.10	9.600	10.56	231.02	0.650	0.000	4.08	15.384	10.00	105.6	0.0	1329.1
50.00		1.00	1.10	9.636	10.60	233.64	0.650	0.000	0.92	3.423	2.23	23.6	0.0	135.6
55.00		1.00	1.12	9.826	10.81	229.60	0.650	0.000	5.00	18.310	11.90	128.6	0.0	725.0
60.00		1.00	1.14	10.003	11.00	225.28	0.650	0.000	5.00	17.812	11.58	127.4	0.0	705.2
65.00		1.00	1.16	10.169	11.19	220.71	0.650	0.000	5.00	17.315	11.25	125.9	0.0	685.3
70.00		1.00	1.18	10.325	11.36	215.91	0.650	0.000	5.00	16.817	10.93	124.2	0.0	665.5
75.00		1.00	1.20	10.473	11.52	210.92	0.650	0.000	5.00	16.320	10.61	122.2	0.0	645.6
76.87	Bot - Section 3	1.00	1.20	10.527	11.58	209.01	0.650	0.000	1.87	5.986	3.89	45.1	0.0	236.8
80.00		1.00	1.21	10.614	11.68	205.76	0.650	0.000	3.13	9.968	6.48	75.6	0.0	704.9
82.12	Top - Section 2	1.00	1.22	10.671	11.74	203.52	0.650	0.000	2.12	6.658	4.33	50.8	0.0	470.8
85.00		1.00	1.23	10.748	11.82	203.25	0.650	0.000	2.88	8.878	5.77	68.2	0.0	281.3
90.00		1.00	1.24	10.875	11.96	197.80	0.650	0.000	5.00	15.038	9.77	116.9	0.0	476.5
95.00		1.00	1.26	10.998	12.10	192.22	0.650	0.000	5.00	14.541	9.45	114.3	0.0	460.6
100.00		1.00	1.27	11.116	12.23	186.52	0.650	0.000	5.00	14.043	9.13	111.6	0.0	444.7
105.00		1.00	1.28	11.229	12.35	180.70	0.650	0.000	5.00	13.546	8.80	108.8	0.0	428.8
110.00		1.00	1.29	11.338	12.47	174.78	0.650	0.000	5.00	13.048	8.48	105.8	0.0	413.0
115.00		1.00	1.31	11.443	12.59	168.76	0.650	0.000	5.00	12.550	8.16	102.7	0.0	397.1
120.00		1.00	1.32	11.544	12.70	162.66	0.650	0.000	5.00	12.053	7.83	99.5	0.0	381.2
122.04	Bot - Section 4	1.00	1.32	11.585	12.74	160.14	0.650	0.000	2.04	4.767	3.10	39.5	0.0	150.7
125.00		1.00	1.33	11.643	12.81	156.46	0.650	0.000	2.96	6.882	4.47	57.3	0.0	378.2
125.95	Top - Section 3	1.00	1.33	11.661	12.83	155.27	0.650	0.000	0.95	2.177	1.42	18.2	0.0	119.6
127.00	Appurtenance(s)	1.00	1.33	11.681	12.85	156.16	0.650	0.000	1.05	2.369	1.54	19.8	0.0	56.3
128.00	Appurtenance(s)	1.00	1.34	11.701	12.87	154.91	0.650	0.000	1.00	2.243	1.46	18.8	0.0	53.3
130.00		1.00	1.34	11.738	12.91	152.39	0.650	0.000	2.00	4.427	2.88	37.2	0.0	105.2
135.00		1.00	1.35	11.831	13.01	146.05	0.650	0.000	5.00	10.719	6.97	90.7	0.0	254.6
137.00	Appurtenance(s)	1.00	1.36	11.867	13.05	143.49	0.650	0.000	2.00	4.148	2.70	35.2	0.0	98.5
140.00		1.00	1.36	11.921	13.11	139.64	0.650	0.000	3.00	6.073	3.95	51.8	0.0	144.2
145.00		1.00	1.37	12.008	13.21	133.16	0.650	0.000	5.00	9.724	6.32	83.5	0.0	230.8
150.00	Appurtenance(s)	1.00	1.38	12.093	13.30	126.61	0.650	0.000	5.00	9.226	6.00	79.8	0.0	218.9
								Totals:	**150.00**			**3,412.5**		**20,704.9**

Discrete Appurtenance Forces

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 31	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	150.00	Lightning Rod 1"x10'	1	12.193	13.412	1.00	1.00	2.32	62.00	0.000	6.000	31.12	0.00	186.70
2	137.00	Low Profile Mount	1	11.867	13.054	1.00	1.00	50.00	2120.00	0.000	0.000	652.70	0.00	0.00
3	137.00	Ericsson 4449 B71+B12	3	11.867	13.054	0.54	0.80	2.65	222.00	0.000	0.000	34.63	0.00	0.00
4	137.00	Ericsson KRY 112 489/2	3	11.867	13.054	0.54	0.80	1.14	46.20	0.000	0.000	14.90	0.00	0.00
5	137.00	APXVAARR24_43-U-NA2	3	11.867	13.054	0.56	0.80	34.00	384.00	0.000	0.000	443.87	0.00	0.00
6	137.00	APX16DWV-16DWVS-E-A	3	11.867	13.054	0.58	0.80	11.42	122.10	0.000	0.000	149.10	0.00	0.00
7	137.00	Kathrein 782 11056 Bias	3	11.867	13.054	0.54	0.80	0.45	5.40	0.000	0.000	5.88	0.00	0.00
8	137.00	RR90-19-XXDPQ	3	11.867	13.054	0.54	0.80	9.60	96.00	0.000	0.000	125.27	0.00	0.00
9	137.00	KRY 112 144/1	3	11.867	13.054	0.54	0.80	0.66	33.00	0.000	0.000	8.61	0.00	0.00
10	128.00	LPA-80080-6CF	6	11.701	12.871	0.66	0.75	17.15	126.00	0.000	0.000	220.69	0.00	0.00
11	127.00	Low Profile Platform	1	11.681	12.850	1.00	1.00	22.00	1400.00	0.000	0.000	282.69	0.00	0.00
12	127.00	mods	1	11.681	12.850	1.00	1.00	13.00	514.00	0.000	0.000	167.04	0.00	0.00
13	127.00	RF4440d-13A	3	11.681	12.850	0.50	0.75	2.82	210.90	0.000	0.000	36.22	0.00	0.00
14	127.00	RF4439d-25A	3	11.681	12.850	0.50	0.75	2.82	253.20	0.000	0.000	36.22	0.00	0.00
15	127.00	MT6407-77A	3	11.681	12.850	0.52	0.75	7.39	238.20	0.000	0.000	94.92	0.00	0.00
16	127.00	MX06FRO660-02	6	11.681	12.850	0.65	0.75	38.64	276.00	0.000	0.000	496.52	0.00	0.00
17	127.00	DB-T1-6Z-8AB-0Z	2	11.681	12.850	0.68	0.90	6.48	88.00	0.000	0.000	83.27	0.00	0.00
							Totals:		**6,197.00**			**2,883.65**		

Total Applied Force Summary

Structure:	CT13612-A-SBA		**Code:**	EIA/TIA-222-G	10/1/2021
Site Name:	Ingalls		**Exposure:**	C	
Height:	150.00 (ft)		**Crest Height:**	0.00	
Base Elev:	1.500 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 32

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		122.50	1094.25	0.00	0.00
10.00		119.85	1127.74	0.00	0.00
15.00		119.42	1189.89	0.00	0.00
20.00		123.41	1166.07	0.00	0.00
25.00		125.98	1142.25	0.00	0.00
30.00		127.56	1118.44	0.00	0.00
35.00		128.39	1094.62	0.00	0.00
40.00		128.63	1070.81	0.00	0.00
42.91		74.50	612.94	0.00	0.00
45.00		53.92	750.77	0.00	0.00
49.08		105.59	1446.00	0.00	0.00
50.00		23.59	161.93	0.00	0.00
55.00		128.64	868.28	0.00	0.00
60.00		127.39	848.43	0.00	0.00
65.00		125.89	828.59	0.00	0.00
70.00		124.15	808.74	0.00	0.00
75.00		122.21	788.90	0.00	0.00
76.87		45.06	290.46	0.00	0.00
80.00		75.65	794.54	0.00	0.00
82.12		50.80	531.61	0.00	0.00
85.00		68.22	363.75	0.00	0.00
90.00		116.94	619.73	0.00	0.00
95.00		114.34	603.86	0.00	0.00
100.00		111.61	587.98	0.00	0.00
105.00		108.75	572.10	0.00	0.00
110.00		105.77	556.23	0.00	0.00
115.00		102.68	540.35	0.00	0.00
120.00		99.49	524.47	0.00	0.00
122.04		39.49	209.08	0.00	0.00
125.00		57.29	463.09	0.00	0.00
125.95		18.15	146.90	0.00	0.00
127.00	(19) attachments	1216.67	3066.59	0.00	0.00
128.00	(6) attachments	239.46	199.52	0.00	0.00
130.00		37.15	145.60	0.00	0.00
135.00		90.67	355.68	0.00	0.00
137.00	(22) attachments	1470.16	3167.64	0.00	0.00
140.00		51.76	148.13	0.00	0.00
145.00		83.49	237.36	0.00	0.00
150.00	(1) attachments	110.89	287.45	0.00	186.70
	Totals:	**6,296.11**	**30,530.78**	**0.00**	**186.70**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 33	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
10.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.442	0.00	2.08
10.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	7.442	0.00	0.55
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.583	0.00	5.20
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.583	0.00	1.37
20.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.017	0.00	5.20
20.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.017	0.00	1.37
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.378	0.00	5.20
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.378	0.00	1.37
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.689	0.00	5.20
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.689	0.00	1.37
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.962	0.00	5.20
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.962	0.00	1.37
40.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	9.208	0.00	5.20
40.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	9.208	0.00	1.37
42.91	Safety Cable	Yes	2.91	0.000	0.00	0.00	0.00	0.000	0.000	9.340	0.00	3.03
42.91	Safety Cable	Yes	2.91	0.000	0.00	0.00	0.00	0.000	0.000	9.340	0.00	0.80
45.00	Safety Cable	Yes	2.09	0.000	0.00	0.00	0.00	0.000	0.000	9.431	0.00	2.17
45.00	Safety Cable	Yes	2.09	0.000	0.00	0.00	0.00	0.000	0.000	9.431	0.00	0.57
49.08	Safety Cable	Yes	4.08	0.000	0.00	0.00	0.00	0.000	0.000	9.600	0.00	4.24
49.08	Safety Cable	Yes	4.08	0.000	0.00	0.00	0.00	0.000	0.000	9.600	0.00	1.11
50.00	Safety Cable	Yes	0.92	0.000	0.00	0.00	0.00	0.000	0.000	9.636	0.00	0.96
50.00	Safety Cable	Yes	0.92	0.000	0.00	0.00	0.00	0.000	0.000	9.636	0.00	0.25
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	9.826	0.00	5.20
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	9.826	0.00	1.37
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.003	0.00	5.20
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.003	0.00	1.37
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.169	0.00	5.20
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.169	0.00	1.37
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.325	0.00	5.20
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.325	0.00	1.37
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.473	0.00	5.20
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.473	0.00	1.37
76.87	Safety Cable	Yes	1.87	0.000	0.00	0.00	0.00	0.000	0.000	10.527	0.00	1.95
76.87	Safety Cable	Yes	1.87	0.000	0.00	0.00	0.00	0.000	0.000	10.527	0.00	0.51
80.00	Safety Cable	Yes	3.13	0.000	0.00	0.00	0.00	0.000	0.000	10.614	0.00	3.25
80.00	Safety Cable	Yes	3.13	0.000	0.00	0.00	0.00	0.000	0.000	10.614	0.00	0.85
82.12	Safety Cable	Yes	2.12	0.000	0.00	0.00	0.00	0.000	0.000	10.671	0.00	2.21
82.12	Safety Cable	Yes	2.12	0.000	0.00	0.00	0.00	0.000	0.000	10.671	0.00	0.58
85.00	Safety Cable	Yes	2.88	0.000	0.00	0.00	0.00	0.000	0.000	10.748	0.00	2.99
85.00	Safety Cable	Yes	2.88	0.000	0.00	0.00	0.00	0.000	0.000	10.748	0.00	0.79
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.875	0.00	5.20
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.875	0.00	1.37
95.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.998	0.00	5.20
95.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.998	0.00	1.37
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.116	0.00	5.20
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.116	0.00	1.37
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.229	0.00	5.20

Linear Appurtenance Segment Forces (Factored)

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 34	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.229	0.00	1.37
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.338	0.00	5.20
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.338	0.00	1.37
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.443	0.00	5.20
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.443	0.00	1.37
120.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.544	0.00	5.20
120.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.544	0.00	1.37
122.04	Safety Cable	Yes	2.04	0.000	0.00	0.00	0.00	0.000	0.000	11.585	0.00	2.12
122.04	Safety Cable	Yes	2.04	0.000	0.00	0.00	0.00	0.000	0.000	11.585	0.00	0.56
125.00	Safety Cable	Yes	2.96	0.000	0.00	0.00	0.00	0.000	0.000	11.643	0.00	3.08
125.00	Safety Cable	Yes	2.96	0.000	0.00	0.00	0.00	0.000	0.000	11.643	0.00	0.81
125.95	Safety Cable	Yes	0.95	0.000	0.00	0.00	0.00	0.000	0.000	11.661	0.00	0.99
125.95	Safety Cable	Yes	0.95	0.000	0.00	0.00	0.00	0.000	0.000	11.661	0.00	0.26
127.00	Safety Cable	Yes	1.05	0.000	0.00	0.00	0.00	0.000	0.000	11.681	0.00	1.09
127.00	Safety Cable	Yes	1.05	0.000	0.00	0.00	0.00	0.000	0.000	11.681	0.00	0.29
128.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	11.701	0.00	1.04
128.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	11.701	0.00	0.27
130.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.738	0.00	2.08
130.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.738	0.00	0.55
135.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.831	0.00	5.20
135.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.831	0.00	1.37
137.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.867	0.00	2.08
137.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.867	0.00	0.55
140.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	11.921	0.00	3.12
140.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	11.921	0.00	0.82
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	12.008	0.00	5.20
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	12.008	0.00	1.37
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	12.093	0.00	5.20
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	12.093	0.00	1.37
									Totals:		**0.0**	**186.4**

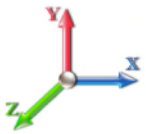
Calculated Forces

Structure:	CT13612-A-SBA	**Code:**	EIA/TIA-222-G	10/1/2021	
Site Name:	Ingalls	**Exposure:**	C		
Height:	150.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.500 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 35	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 23

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-30.53	-6.31	0.00	-645.12	0.00	645.12	4250.57	2125.28	9550.04	4782.12	0.00	0.000	0.000	0.142
5.00	-29.43	-6.20	0.00	-613.59	0.00	613.59	4196.29	2098.14	9223.72	4618.72	0.02	-0.037	0.000	0.140
10.00	-28.30	-6.10	0.00	-582.59	0.00	582.59	4140.37	2070.19	8899.17	4456.20	0.08	-0.074	0.000	0.138
15.00	-27.11	-6.00	0.00	-552.09	0.00	552.09	4082.82	2041.41	8576.63	4294.69	0.18	-0.111	0.000	0.135
20.00	-25.94	-5.89	0.00	-522.11	0.00	522.11	4023.63	2011.81	8256.33	4134.30	0.31	-0.149	0.000	0.133
25.00	-24.79	-5.77	0.00	-492.68	0.00	492.68	3962.80	1981.40	7938.51	3975.15	0.49	-0.188	0.000	0.130
30.00	-23.67	-5.66	0.00	-463.81	0.00	463.81	3900.33	1950.16	7623.41	3817.37	0.71	-0.227	0.000	0.128
35.00	-22.57	-5.54	0.00	-435.52	0.00	435.52	3836.22	1918.11	7311.28	3661.07	0.97	-0.266	0.000	0.125
40.00	-21.50	-5.42	0.00	-407.81	0.00	407.81	3770.47	1885.24	7002.35	3506.38	1.27	-0.306	0.000	0.122
42.91	-20.88	-5.35	0.00	-392.02	0.00	392.02	3731.41	1865.70	6823.91	3417.03	1.46	-0.330	0.000	0.120
45.00	-20.13	-5.30	0.00	-380.86	0.00	380.86	3703.09	1851.54	6696.86	3353.41	1.61	-0.347	0.000	0.119
49.08	-18.68	-5.19	0.00	-359.24	0.00	359.24	2883.58	1441.79	5189.66	2598.69	1.92	-0.381	0.000	0.145
50.00	-18.52	-5.18	0.00	-354.46	0.00	354.46	2874.90	1437.45	5148.29	2577.97	2.00	-0.389	0.000	0.144
55.00	-17.65	-5.06	0.00	-328.58	0.00	328.58	2826.79	1413.40	4924.46	2465.89	2.43	-0.436	0.000	0.140
60.00	-16.80	-4.93	0.00	-303.31	0.00	303.31	2777.04	1388.52	4702.55	2354.77	2.91	-0.483	0.000	0.135
65.00	-15.96	-4.81	0.00	-278.63	0.00	278.63	2725.66	1362.83	4482.79	2244.72	3.44	-0.530	0.000	0.130
70.00	-15.15	-4.70	0.00	-254.56	0.00	254.56	2672.63	1336.31	4265.41	2135.88	4.02	-0.577	0.000	0.125
75.00	-14.36	-4.57	0.00	-231.08	0.00	231.08	2617.96	1308.98	4050.67	2028.35	4.65	-0.624	0.000	0.119
76.87	-14.07	-4.53	0.00	-222.52	0.00	222.52	2597.06	1298.53	3970.94	1988.42	4.90	-0.642	0.000	0.117
80.00	-13.28	-4.45	0.00	-208.35	0.00	208.35	2561.66	1280.83	3838.80	1922.25	5.33	-0.672	0.000	0.114
82.12	-12.74	-4.40	0.00	-198.90	0.00	198.90	1893.43	946.71	2847.18	1425.71	5.63	-0.692	0.000	0.146
85.00	-12.38	-4.34	0.00	-186.24	0.00	186.24	1872.76	936.38	2763.64	1383.87	6.06	-0.719	0.000	0.141
90.00	-11.75	-4.22	0.00	-164.56	0.00	164.56	1835.56	917.78	2619.34	1311.62	6.84	-0.773	0.000	0.132
95.00	-11.15	-4.11	0.00	-143.45	0.00	143.45	1796.72	898.36	2476.41	1240.05	7.68	-0.825	0.000	0.122
100.00	-10.56	-4.00	0.00	-122.91	0.00	122.91	1756.24	878.12	2335.09	1169.28	8.57	-0.875	0.000	0.111
105.00	-9.99	-3.89	0.00	-102.92	0.00	102.92	1714.12	857.06	2195.60	1099.43	9.51	-0.923	0.000	0.099
110.00	-9.43	-3.78	0.00	-83.48	0.00	83.48	1670.37	835.18	2058.21	1030.63	10.50	-0.966	0.000	0.087
115.00	-8.89	-3.67	0.00	-64.58	0.00	64.58	1624.97	812.48	1923.13	963.00	11.54	-1.005	0.000	0.073
120.00	-8.36	-3.57	0.00	-46.21	0.00	46.21	1577.93	788.97	1790.62	896.64	12.61	-1.038	0.000	0.057
122.04	-8.15	-3.53	0.00	-38.95	0.00	38.95	1558.31	779.15	1737.43	870.01	13.05	-1.050	0.000	0.050
125.00	-7.69	-3.46	0.00	-28.50	0.00	28.50	1529.26	764.63	1660.91	831.69	13.71	-1.064	0.000	0.039
125.95	-7.55	-3.44	0.00	-25.20	0.00	25.20	1048.18	524.09	1150.34	576.03	13.92	-1.068	0.000	0.051
127.00	-4.50	-2.17	0.00	-21.60	0.00	21.60	1042.37	521.19	1133.34	567.51	14.16	-1.072	0.000	0.042
128.00	-4.31	-1.93	0.00	-19.43	0.00	19.43	1036.75	518.37	1117.13	559.39	14.38	-1.076	0.000	0.039
130.00	-4.16	-1.89	0.00	-15.58	0.00	15.58	1025.31	512.65	1084.83	543.22	14.84	-1.083	0.000	0.033
135.00	-3.81	-1.79	0.00	-6.15	0.00	6.15	995.56	497.78	1004.87	503.18	15.98	-1.095	0.000	0.016
137.00	-0.67	-0.26	0.00	-2.57	0.00	2.57	983.21	491.60	973.24	487.34	16.44	-1.097	0.000	0.006
140.00	-0.52	-0.20	0.00	-1.79	0.00	1.79	964.18	482.09	926.23	463.80	17.13	-1.099	0.000	0.004
145.00	-0.29	-0.12	0.00	-0.77	0.00	0.77	931.15	465.58	849.16	425.21	18.28	-1.101	0.000	0.002
150.00	0.00	-0.11	0.00	-0.19	0.00	0.19	896.49	448.25	773.89	387.52	19.43	-1.102	0.000	0.000

Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.6W 101 mph Wind	28.6	0.00	36.59	0.00	0.00	2937.82
0.9D + 1.6W 101 mph Wind	28.6	0.00	27.44	0.00	0.00	2914.09
1.2D + 1.0Di + 1.0Wi 50 mph Wind	8.1	0.00	66.56	0.00	0.00	845.79
1.2D + 1.0E	1.1	0.00	36.64	0.00	0.00	115.41
0.9D + 1.0E	1.1	0.00	27.48	0.00	0.00	114.44
1.0D + 1.0W 60 mph Wind	6.3	0.00	30.53	0.00	0.00	645.12

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.6W 101 mph Wind	-14.25	-20.07	0.00	-907.22	0.00	-907.22	1893.43	946.71	2847.18	1425.71	82.12	0.644
0.9D + 1.6W 101 mph Wind	-10.43	-19.85	0.00	-895.74	0.00	-895.74	1893.43	946.71	2847.18	1425.71	82.12	0.634
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-34.54	-5.80	0.00	-262.65	0.00	-262.65	1893.43	946.71	2847.18	1425.71	82.12	0.203
1.2D + 1.0E	-15.35	-0.75	0.00	-40.41	0.00	-40.41	1893.43	946.71	2847.18	1425.71	82.12	0.036
0.9D + 1.0E	-11.51	-0.74	0.00	-39.92	0.00	-39.92	1893.43	946.71	2847.18	1425.71	82.12	0.034
1.0D + 1.0W 60 mph Wind	-12.74	-4.40	0.00	-198.90	0.00	-198.90	1893.43	946.71	2847.18	1425.71	82.12	0.146

Base Plate Summary

Structure:	CT13612-A-SB		**Code:**	EIA/TIA-222-G	10/1/2021
Site Name:	Ingalls		**Exposure:**	C	
Height:	150.00 (ft)		**Crest Height:**	0.00	
Base Elev:	1.500 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 37

Tower Engineering Solutions

Reactions	
Original Design	
Moment (kip-ft):	3015.40
Axial (kip):	31.20
Shear (kip):	28.36
Analysis (1.2D + 1.6W)	
Moment (kip-ft):	2937.82
Axial (kip):	36.59
Shear (kip):	28.60

Base Plate	
Yield (ksi):	60.00
Width (in):	70.00
Style:	Round
Polygon Sides:	0.00
Clip Length (in):	0.00
Effective Len (in):	11.83
Moment (kip-in):	568.19
Allow Stress (ksi):	81.00
Applied Stress (ksi):	72.09
Stress Ratio:	0.89

Anchor Bolts	
Bolt Circle:	64.00
Number Bolts:	16.00
Bolt Type:	2.25" 18J
Bolt Diameter (in):	2.25
Yield (ksi):	75.00
Ultimate (ksi):	100.00
Arrangement:	Radial
Cluster Dist (in):	0.00
Start Angle (deg):	0.00
Compression	
Force (kip):	141.87
Allowable (kip):	260.00
Ratio:	0.56
Tension	
Force (kip):	133.55
Allowable (kip):	260.00
Ratio:	0.53

Monopole Mat Foundation Design

			Date: 10/1/2021
Customer Name:	Verizon	**EIA/TIA Standard:**	EIA-222-G
Site Name:		**Structure Height (Ft.):**	150
Site Number:	CT13612-A-SBA	**Engineer Name:**	M. Franco
Engr. Number:	116953	**Engineer Login ID:**	

Foundation Info Obtained from: Drawings/Calculations

Structure Type: Monopole

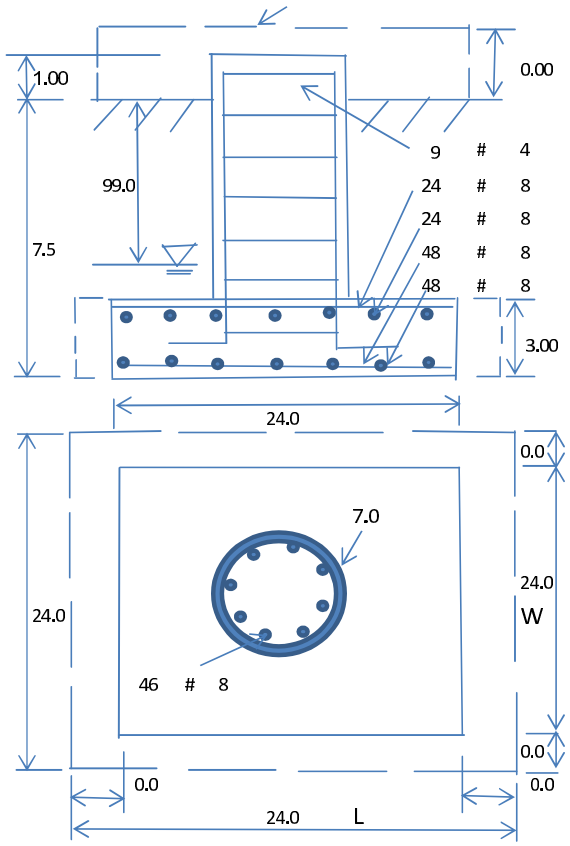
Analysis or Design? Analysis

Base Reactions (Factored):

Axial Load (Kips):	36.6	Shear Force (Kips):	28.6
Uplift Force (Kips):	0.0	Moment (Kips-ft):	2945.9
Allowable overstress %:	5.0%		

Foundation Geometries:

		Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	7.0	Depth of Base BG (ft.):	7.5
Pier Height A. G. (ft.):	1.00	Thickness of Pad (ft):	3.00
Length of Pad (ft.):	24	Width of Pad (ft.):	24
Final Length of pad (ft)	24.0	Final width of pad (ft):	24.0



Material Properties and Reabr Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	8	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	46	Tie Spacing (in):	12.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	8	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf

Rebar at the bottom of the concrete pad:

Qty. of Rebar in Pad (L):	48	Qty. of Rebar in Pad (W):	48

Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	24	Qty. of Rebar in Pad (W):	24
Apply 1.35 factor for e/w Per G:	1.35		

Soil Design Parameters:

Soil Unit Weight (pcf):	110.0	Soil Buoyant Weight:	50.0	Pcf		
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad:	30
Ultimate Bearing Pressure (psf):	21000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	Yes		Angle from Bottm of Pad:	25
Consider soil hor. resist. for OTM.:	No	Reduction factor on the maximum soil bearing pressure:			1.00	

Foundation Analysis and Design: Uplift Strength Reduction Factor: 0.75 — Compression Strength Reduction Factor: 0.75

Total Dry Soil Volume (cu. Ft.):	2418.82	Total Dry Soil Weight (Kips):	266.07
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	266.07	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	1939.66	Total Dry Concrete Weight (Kips):	290.95
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	290.95	Total Vertical Load on Base (Kips):	593.62

Check Soil Capacities:

					Load/ Capacity Ratio	
Calculated Maxium Net Soil Pressure under the base (psf):	2528	<	Allowable Factored Soil Bearing (psf):	15750	0.16	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	6455.0	>	Design Factored Momont (kips-ft):	3189	0.49	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	2.02	OK!				

Check the capacities of Reinforceing Concrete:

Strength reduction factor (Flexure and axial tension):
Strength reduction factor (Axial compresion):
Strength reduction factor (Shear):
Wind Load Factor on Concrete Design:

d
Capacity
Ratio

(1) Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):			Tie / Stirrup Area (sq. in./each):	
Calculated Moment Capacity (Mn,Kips-Ft):		>	Design Factored Moment (Mu, Kips-F	
Calculated Shear Capacity (Kips):		>	Design Factored Shear (Kips):	
Calculated Tension Capacity (Tn, Kips):		>	Design Factored Tension (Tu Kips):	
Calculated Compression Capacity (Pn, Kips):		>	Design Factored Axial Load (Pu Kips):	
Moment & Axial Strength Combination:		OK!	Check Tie Spacing (Design/Required):	
Pier Reinforcement Ratio:			Reinforcement Ratio is satisfied per ACI	

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):			One-Way Factored Shear (L-D. Kips):	207.8
One-Way Design Shear Capacity (W-Direction, Kips):			One-Way Factored Shear (W-D., Kips	
One-Way Design Shear Capacity (Corner-Corner. Kips):			One-Way Factored Shear (C-C, Kips):	196.3
Lower Steel Pad Reinforcement Ratio (L-Direct.):			Lower Steel Pad Reinf. Ratio (W-Direc	
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):			Moment at Bottom (L-Dir. K-Ft):	
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):			Moment at Bottom (W-Dir. K-Ft):	
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):			Moment at Bottom (C-C Dir. K-Ft):	
Upper Steel Pad Reinforcement Ratio (L-Direct.):			Upper Steel Reinf. Ratio (W-Dir.):	
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):			Moment at the top (L-Dir K-Ft):	
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):			Moment at the top (W-Dir K-Ft):	
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):			Moment at the top (C-C Dir. K-Ft):	

(3).Check Punching Shear Capacity due to Moment in the Pier:

Moment transferred by punching shear:	1178.4	k-ft.	Max. factored shear stress v_{u_CD}	Psi
Max. factored shear stress v_{u_AB}		Psi	Factored shear Strength ϕv_n	Psi
Max. factored shear stress v_u		Psi	Check Usage of Punching Shear Capacity:	OK!

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(856) 797-0412
peter.albano@colliersengineering.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10094017
Maser Consulting Connecticut Project #: 21777295A

August 16, 2021

Site Information	*Site ID:*	*535823-VZW / DANIELSON WEST CT*
	Site Name:	*DANIELSON WEST CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*146 Brown Road* *Brooklyn, Connecticut 06234* *Windham County*
	Latitude:	*41.79836388°*
	Longitude:	*-71.93589166°*
Structure Information	*Tower Type:*	*Monopole*
	Mount Type:	*12.58-Ft Platform*

FUZE ID # 16272151

Analysis Results

Platform: **52.2% Pass**

******Contractor PMI Requirements:***
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings

Report Prepared By: Nathan LaPorte

Digitally signed by Justin Linette
Date: 2021.08.17 09:24:10-04'00'

Executive Summary:

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS, Site ID: 674872, dated July 27, 2021*
Mount Mapping Report	*Roaming Networks Inc., Site #: PSLC 535823, dated March 23, 2021*
Previous Mount Analysis	*Maser Consulting Project #: 21777295A, dated August 4, 2021*
Mount Modification Drawings	*Maser Consulting Project #: 21777295A, dated August 16, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	122 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.989
Seismic Parameters:	S_S:	0.184
	S_1:	0.054
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

The following equipment has been considered for the analysis of the mount:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
127.00	127.00	3	Samsung	MT6407-77A	Added
		6	JMA Wireless	MX06FRO660-02	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		6	Antel	LPA-80080/6CF	Retained
		2	Raycap	RHSDC-3315-PF-48*	

*Equipment is flush mounted directly to the Monopole. They are not mounted on the platform mount and are not included in this mount analysis.

Any proposed antennas not currently installed should be mounted such that the centerline of the antennas does not exceed 6 inches vertically from the center of the antenna mount.

The recent mount mapping reported existing OVP units. It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

Model Number	Ports	AKA
DB-B1-6C-12AB-0Z	6	OVP-6
RVZDC-6627-PF-48	12	OVP-12

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.

2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

   Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

   The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
   - Channel, Solid Round, Angle, Plate — ASTM A36 (Gr. 36)
   - HSS (Rectangular) — ASTM 500 (Gr. B-46)
   - Pipe — ASTM A53 (Gr. B-35)
   - Threaded Rod — F1554 (Gr. 36)
   - Bolts — ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	14.6 %	Pass
Standoff Horizontal	31.8 %	Pass
Platform Crossmember	16.4 %	Pass
Mount Pipe	28.1 %	Pass
Replacement Pipe	28.8 %	Pass
Corner Plate	19.4 %	Pass
Grating Support	21.5 %	Pass
Cross Arm Plate	35.7 %	Pass
Support Rail	13.9 %	Pass
Support Rail Corner	10.6 %	Pass
Mount Connection	52.2 %	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**52.2%**

Recommendation:

The existing mount will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter


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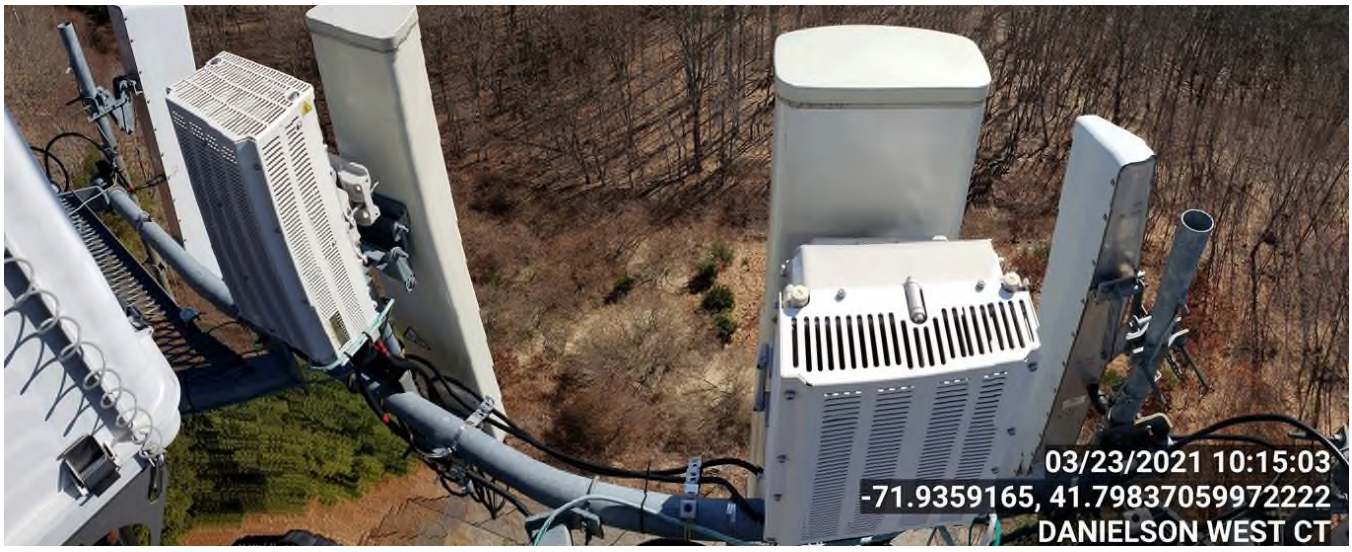
DANIELSON WEST CT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DANIELSON WEST CT

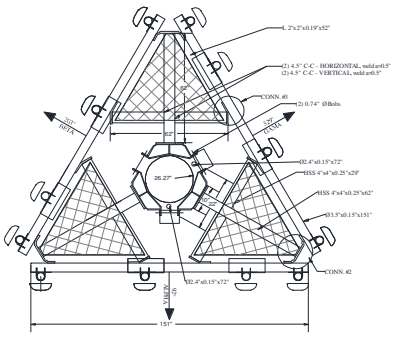
V3.0 Updated on 8-31-2020

PAUL J. FORD & COMPANY

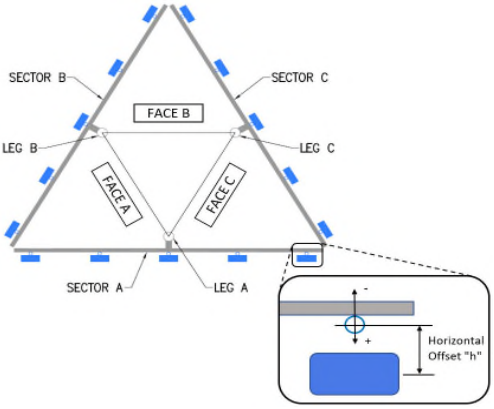
Antenna Mount Mapping Form (PATENT PENDING)

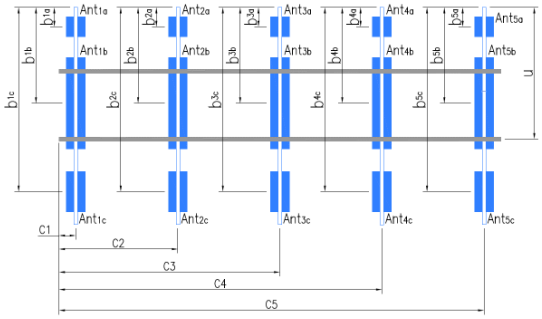
FCC # 1248716

Tower Owner:	SBA	**Mapping Date:**	03/23/2021
Site Name:	VZW: DANIELSON WEST CT	**Tower Type:**	Monopole
Site Number or ID:	PSLC: 535823	**Tower Height (Ft.):**	N/A
Mapping Contractor:	Roaming Networks Inc.	**Mount Elevation (Ft.):**	127.46



OVERALL MOUNT SCHEMATIC





Antenna Layout (Looking Out From Tower)

Mount Pipe Configuration and Geometries [Unit = Inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE Ø 2.4"x0.11"x72"	37.00	4.50	C1	PIPE Ø 2.4"x0.11"x72"	37.00	4.50
A2	PIPE Ø 2.4"x0.11"x72"	37.00	66.00	C2	PIPE Ø 2.4"x0.11"x72"	37.00	66.00
A3	PIPE Ø 2.4"x0.11"x72"	35.00	121.50	C3	PIPE Ø 2.4"x0.11"x72"	35.00	121.50
A4	PIPE Ø 2.4"x0.11"x72"	32.50	146.00	C4	PIPE Ø 2.4"x0.11"x72"	32.50	146.00
A5				C5			
A6				C6			
B1	PIPE Ø 2.4"x0.11"x72"	37.00	4.50	D1			
B2	PIPE Ø 2.4"x0.11"x72"	37.00	66.00	D2			
B3	PIPE Ø 2.4"x0.11"x72"	35.00	121.50	D3			
B4	PIPE Ø 2.4"x0.11"x72"	32.50	146.00	D4			
B5				D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	0.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	4.08
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	

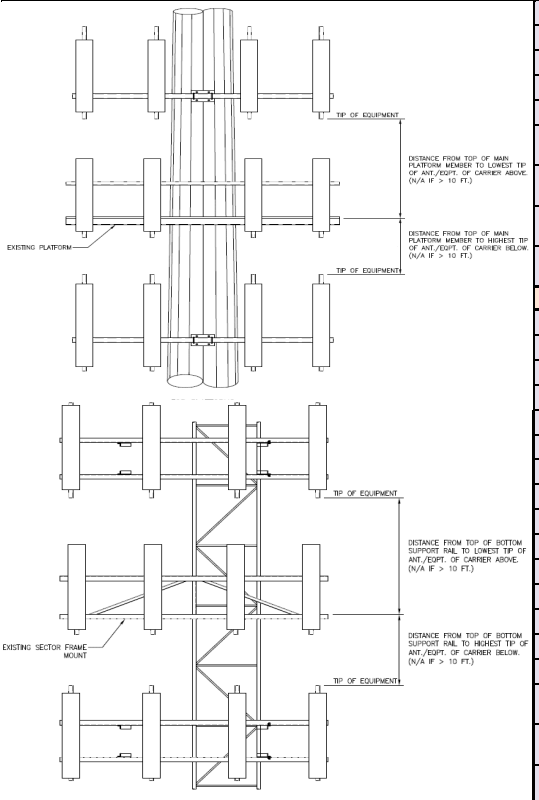
Please enter additional infomation or comments below.

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	26.27

	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
Ants. Items	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant_{1a}										
Ant_{1b}	LPA80080/6CF-E-DIN	5.50	13.20	70.90		127.418	37.50	14.50	92.00	8
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	SBNHH-1D65B	11.85	7.09	96.58		128.335	26.50	9.00	92.00	9
Ant_{2c}	B66a RRH 4x45	11.80	7.18	25.80		130.293	3.00			10
Ant_{3a}										
Ant_{3b}	SBNHH-1D65B	11.85	7.09	96.58		128.043	28.00	9.00	92.00	4
Ant_{3c}	B13 RRH 4x30	11.80	7.50	20.90		130.002	4.50			5,6
Ant_{4a}										
Ant_{4b}	LPA80080/6CF-E-DIN	5.50	13.20	70.90		127.085	37.00	15.00	92.00	7
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RHSDC-3315-PF-48	15.73	10.30	28.93						
Ant on Tower										

Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector		
Sector A:	92.00	Deg	Leg A:		Deg
Sector B:	203.00	Deg	Leg B:		Deg
Sector C:	329.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information			
Location:	329.00	Deg	Sector C
Climbing Facility	Corrosion Type:		Good condition.
	Access:		Climbing path was unobstructed.
	Condition:		Good condition.



Sector B										
Ant_{1a}										
Ant_{1b}	LPA80080/6CF-E-DIN	5.50	13.20	70.90		127.418	37.50	14.50	203.00	8
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	SBNHH-1D65B	11.85	7.09	96.58		128.335	26.50	9.00	203.00	9
Ant_{2c}	B66a RRH 4x45	11.80	7.18	25.80		130.293	3.00			10
Ant_{3a}										
Ant_{3b}	SBNHH-1D65B	11.85	7.09	96.58		128.043	28.00	9.00	203.00	4
Ant_{3c}	B13 RRH 4x30	11.80	7.50	20.90		130.002	4.50			5,6
Ant_{4a}										
Ant_{4b}	LPA80080/6CF-E-DIN	5.50	13.20	70.90		127.085	37.00	15.00	203.00	7
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}										
Ant_{1b}	LPA80080/6CF-E-DIN	5.50	13.20	70.90		127.418	37.50	14.50	329.00	8
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	SBNHH-1D65B	11.85	7.09	96.58		128.335	26.50	9.00	329.00	9
Ant_{2c}	B66a RRH 4x45	11.80	7.18	25.80		130.293	3.00			10
Ant_{3a}										
Ant_{3b}	SBNHH-1D65B	11.85	7.09	96.58		128.043	28.00	9.00	329.00	4
Ant_{3c}	B13 RRH 4x30	11.80	7.50	20.90		130.002	4.50			5,6
Ant_{4a}										
Ant_{4b}	LPA80080/6CF-E-DIN	5.50	13.20	70.90		127.085	37.00	15.00	329.00	7
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RHSDC-3315-PF-48	15.73	10.30	28.93						
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #

1		
2		
3		
4		
5		
6		
7		
8		

Mapping Notes
1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.
3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.
4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.
5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.
6. Please measure and report the size and length of all existing antenna mounting pipes.
7. Please measure and report the antenna information for all sectors.
8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

Standard Conditions
1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.

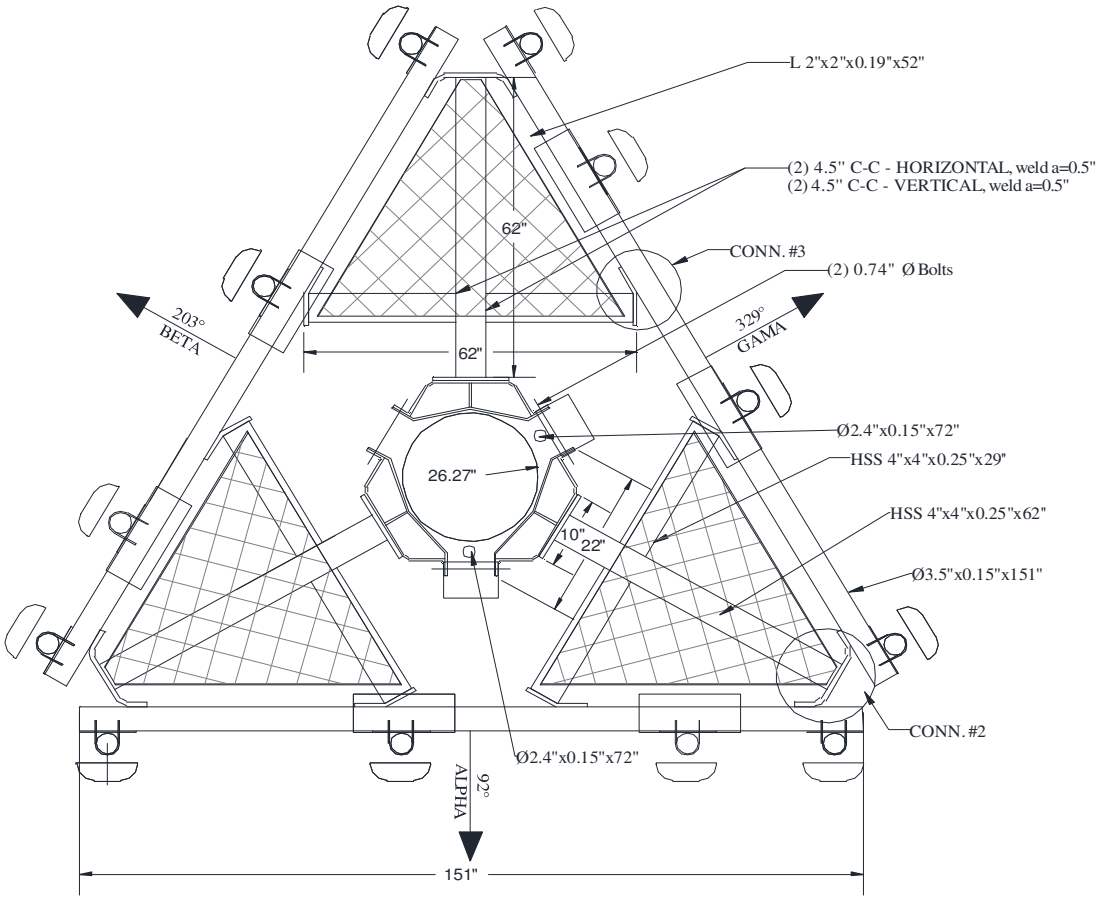
PAUL J. FORD & COMPANY

Antenna Mount Mapping Form (PATENT PENDING)

FCC # 1248716

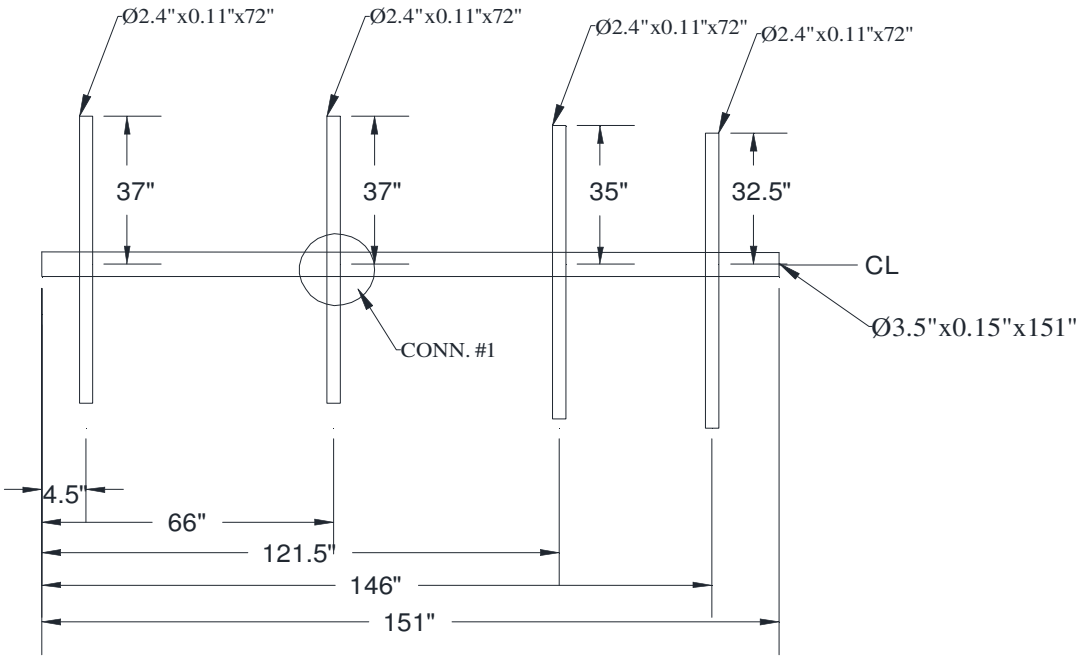
Tower Owner:	SBA	**Mapping Date:**	03/23/2021
Site Name:	VZW: DANIELSON WEST CT	**Tower Type:**	Monopole
Site Number or ID:	PSLC: 535823	**Tower Height (Ft.):**	N/A
Mapping Contractor:	Roaming Networks Inc.	**Mount Elevation (Ft.):**	127.46

Please Insert Sketches of the Antenna Mount



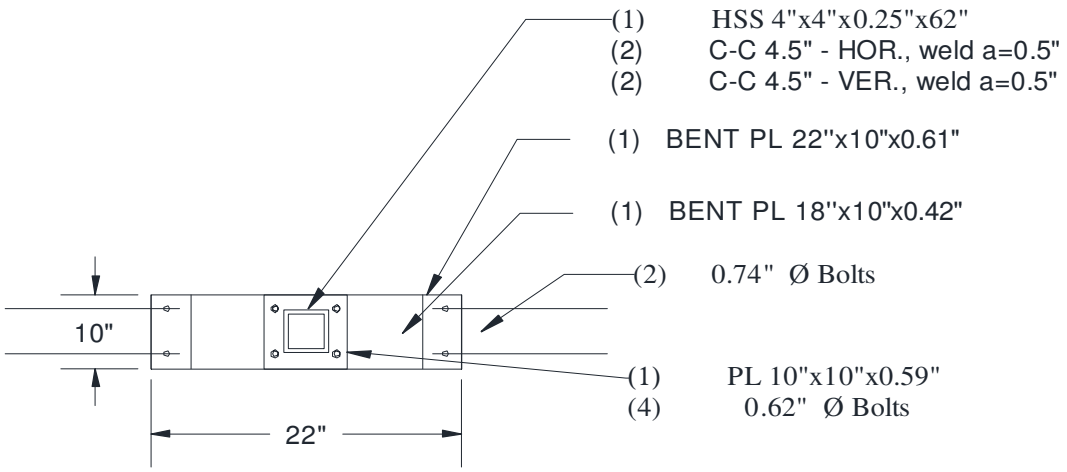
OVERALL MOUNT SCHEMATIC

Please Insert Sketches of the Antenna Mount, cont'd

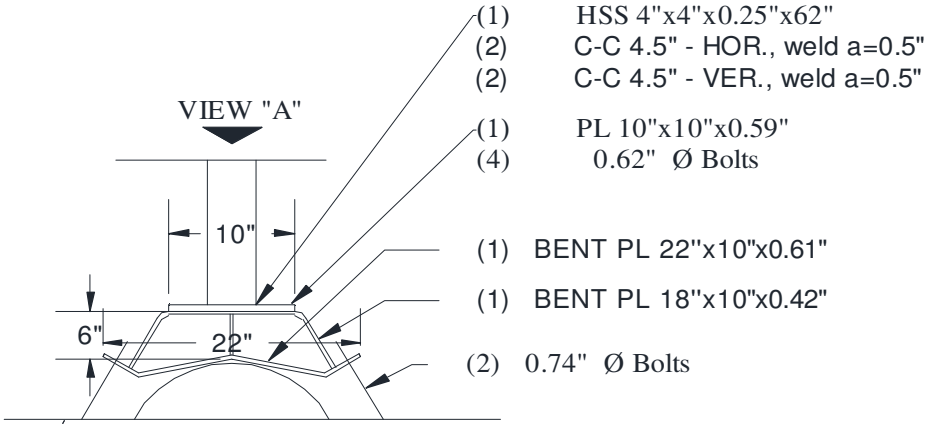


SECTOR A, B, C

Please Insert Sketches of the Antenna Mount, cont'd



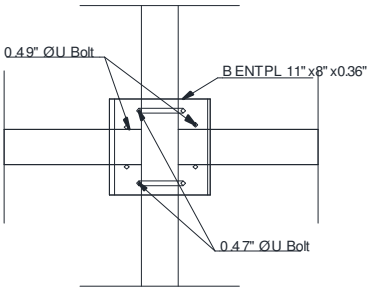
VIEW "A"



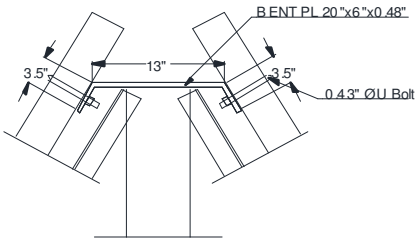
TOWER ATTACHMENT

Please Insert Sketches of the Antenna Mount, cont'd

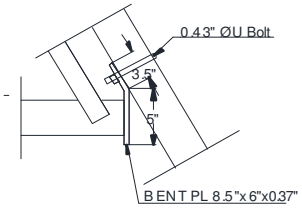
CONNECTION "1"

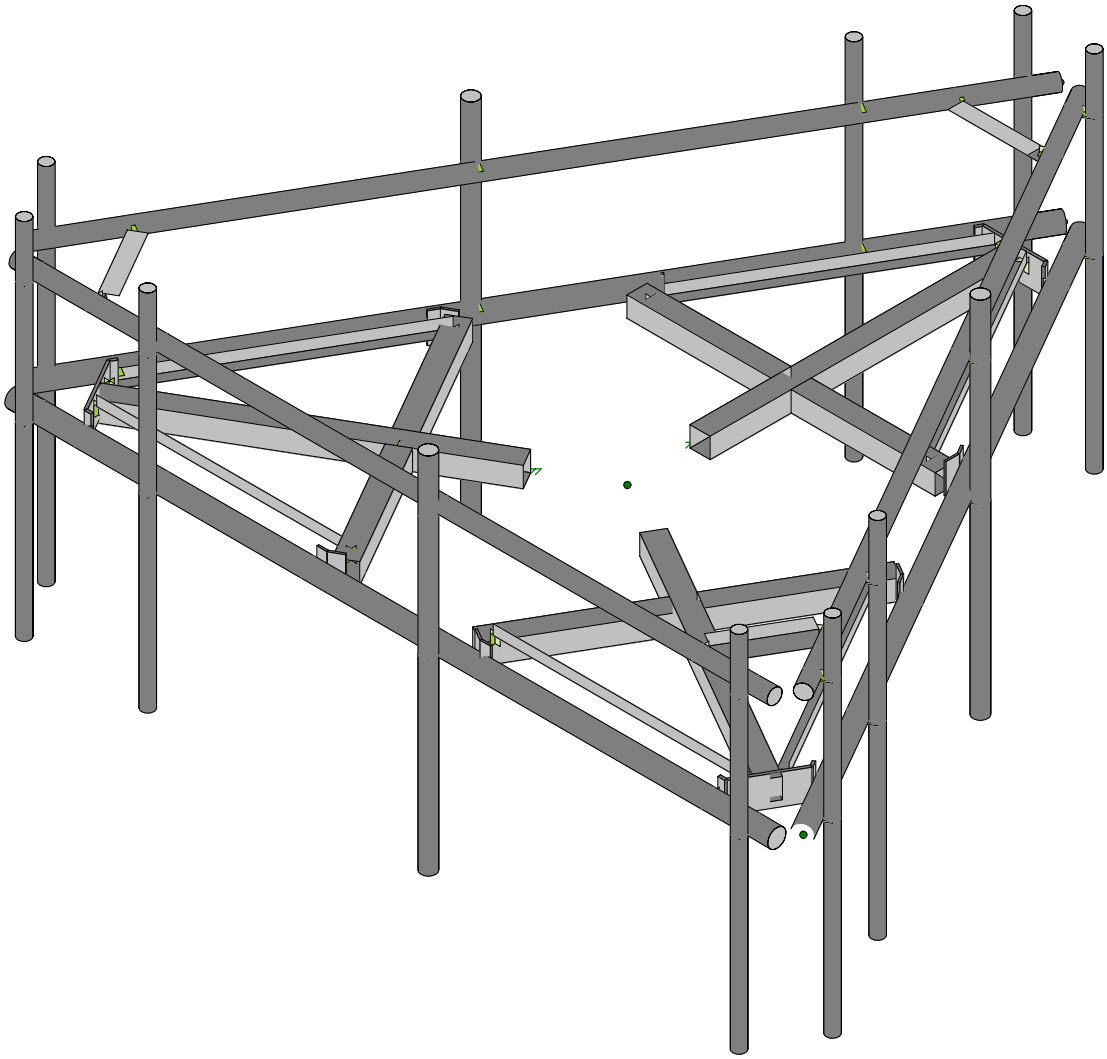


CONNECTION "2"



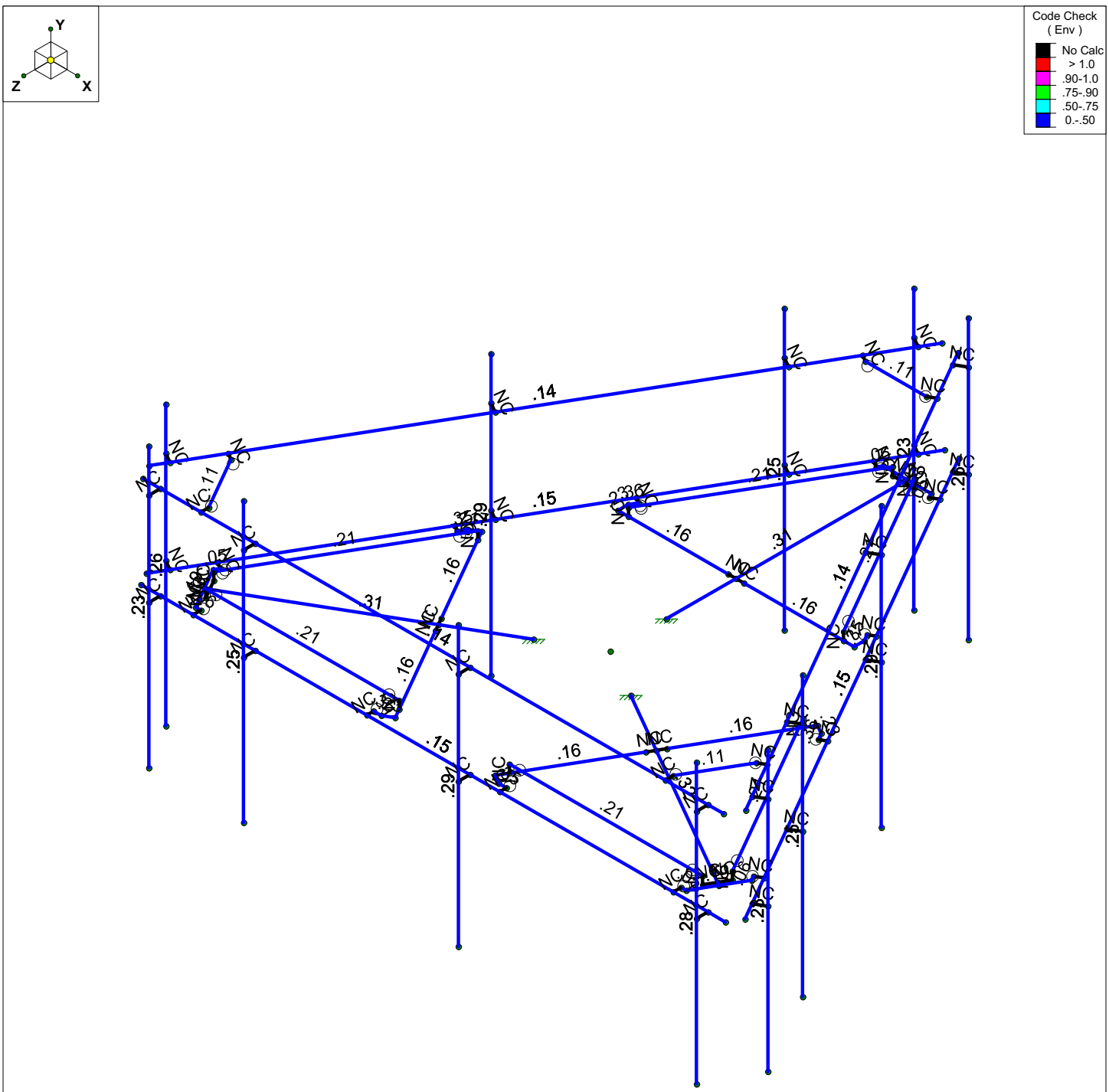
CONNECTION "3"





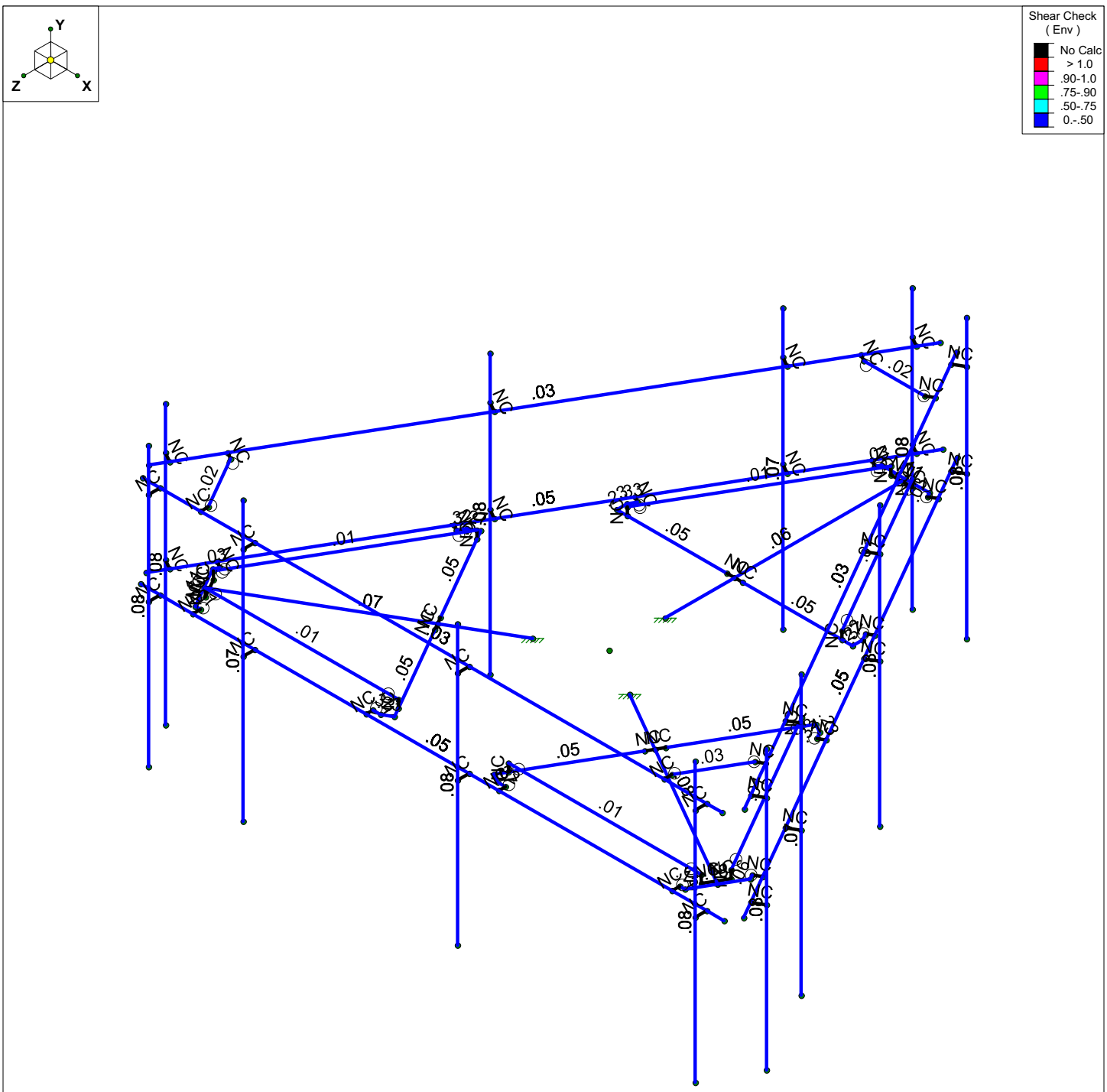
Envelope Only Solution

Maser Consulting	Mount Fix	SK - 1
NL		Aug 12, 2021 at 9:08 AM
21777295A		Loaded_535823-VZW_MT_LO_H.r...



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	Mount Fix	SK - 2
NL		Aug 12, 2021 at 9:08 AM
21777295A		Loaded_535823-VZW_MT_LO_H.r...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	Mount Fix	SK - 3
NL		Aug 12, 2021 at 9:09 AM
21777295A		Loaded_535823-VZW_MT_LO_H.r...

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(...
1	Antenna D	None					108			
2	Antenna Di	None					108			
3	Antenna Wo (0 Deg)	None					108			
4	Antenna Wo (30 Deg)	None					108			
5	Antenna Wo (60 Deg)	None					108			
6	Antenna Wo (90 Deg)	None					108			
7	Antenna Wo (120 Deg)	None					108			
8	Antenna Wo (150 Deg)	None					108			
9	Antenna Wo (180 Deg)	None					108			
10	Antenna Wo (210 Deg)	None					108			
11	Antenna Wo (240 Deg)	None					108			
12	Antenna Wo (270 Deg)	None					108			
13	Antenna Wo (300 Deg)	None					108			
14	Antenna Wo (330 Deg)	None					108			
15	Antenna Wi (0 Deg)	None					108			
16	Antenna Wi (30 Deg)	None					108			
17	Antenna Wi (60 Deg)	None					108			
18	Antenna Wi (90 Deg)	None					108			
19	Antenna Wi (120 Deg)	None					108			
20	Antenna Wi (150 Deg)	None					108			
21	Antenna Wi (180 Deg)	None					108			
22	Antenna Wi (210 Deg)	None					108			
23	Antenna Wi (240 Deg)	None					108			
24	Antenna Wi (270 Deg)	None					108			
25	Antenna Wi (300 Deg)	None					108			
26	Antenna Wi (330 Deg)	None					108			
27	Antenna Wm (0 Deg)	None					108			
28	Antenna Wm (30 Deg)	None					108			
29	Antenna Wm (60 Deg)	None					108			
30	Antenna Wm (90 Deg)	None					108			
31	Antenna Wm (120 Deg)	None					108			
32	Antenna Wm (150 Deg)	None					108			
33	Antenna Wm (180 Deg)	None					108			
34	Antenna Wm (210 Deg)	None					108			
35	Antenna Wm (240 Deg)	None					108			
36	Antenna Wm (270 Deg)	None					108			
37	Antenna Wm (300 Deg)	None					108			
38	Antenna Wm (330 Deg)	None					108			
39	Structure D	None		-1					3	
40	Structure Di	None						57	3	
41	Structure Wo (0 Deg)	None						114		
42	Structure Wo (30 Deg)	None						114		
43	Structure Wo (60 Deg)	None						114		
44	Structure Wo (90 Deg)	None						114		
45	Structure Wo (120 Deg)	None						114		
46	Structure Wo (150 Deg)	None						114		
47	Structure Wo (180 Deg)	None						114		
48	Structure Wo (210 Deg)	None						114		
49	Structure Wo (240 Deg)	None						114		
50	Structure Wo (270 Deg)	None						114		
51	Structure Wo (300 Deg)	None						114		
52	Structure Wo (330 Deg)	None						114		
53	Structure Wi (0 Deg)	None						114		
54	Structure Wi (30 Deg)	None						114		
55	Structure Wi (60 Deg)	None						114		
56	Structure Wi (90 Deg)	None						114		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(...
57	Structure Wi (120 Deg)	None						114		
58	Structure Wi (150 Deg)	None						114		
59	Structure Wi (180 Deg)	None						114		
60	Structure Wi (210 Deg)	None						114		
61	Structure Wi (240 Deg)	None						114		
62	Structure Wi (270 Deg)	None						114		
63	Structure Wi (300 Deg)	None						114		
64	Structure Wi (330 Deg)	None						114		
65	Structure Wm (0 Deg)	None						114		
66	Structure Wm (30 Deg)	None						114		
67	Structure Wm (60 Deg)	None						114		
68	Structure Wm (90 Deg)	None						114		
69	Structure Wm (120 Deg)	None						114		
70	Structure Wm (150 Deg)	None						114		
71	Structure Wm (180 Deg)	None						114		
72	Structure Wm (210 Deg)	None						114		
73	Structure Wm (240 Deg)	None						114		
74	Structure Wm (270 Deg)	None						114		
75	Structure Wm (300 Deg)	None						114		
76	Structure Wm (330 Deg)	None						114		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Area ...	None						30		
82	BLC 40 Transient Area ...	None						30		

Load Combinations

	Description	Solve	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
1	1.2D+1.0Wo (0 De...	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2	1.2D+1.0Wo (30 D...	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0Wo (60 D...	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0Wo (90 D...	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0Wo (120 ...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0Wo (150 ...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0Wo (180 ...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0Wo (210 ...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0Wo (240 ...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0Wo (270 ...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0Wo (300 ...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0Wo (330 ...	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										

Load Combinations (Continued)

	Description	Solve	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
27	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	Seismic Mass		Y		1	1	39	1																
53	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1										
54	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866										
55	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5										
56	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ											
57	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5										
58	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866										
59	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1										
60	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866										
61	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5										
62	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ											
63	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5										
64	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866										

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	6.291667	0	3.810523	0	
2	N2	-6.291667	0	3.810523	0	
3	N3	0	0	-1.208333	0	
4	N5	-2.541667	0	-2.708333	0	
5	N6	2.315104	0.166667	-2.708333	0	
6	N7	-2.315104	0.166667	-2.708333	0	
7	N8	5.916667	0	3.810523	0	
8	N9	5.916667	0	4.060523	0	
9	N10	-5.875	0	3.810523	0	
10	N11	-5.875	0	4.060523	0	
11	N12	0.791667	0	3.810523	0	
12	N13	0.791667	0	4.060523	0	
13	N14	-3.833333	0	3.810523	0	
14	N15	-3.833333	0	4.060523	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N16	-3.833333	-3.083333	4.060523	0	
16	N17	-3.833333	2.916667	4.060523	0	
17	N18	-5.875	-3.083333	4.060523	0	
18	N19	-5.875	2.916667	4.060523	0	
19	N20	0.791667	-3.083333	4.060523	0	
20	N21	0.791667	2.916667	4.060523	0	
21	N22	5.916667	-3.083333	4.060523	0	
22	N23	5.916667	2.916667	4.060523	0	
23	N24	0	0	-2.708333	0	
24	N27	0	0	-6.395833	0	
25	CP	0	0	0	0	
26	N29	2.315104	0	-2.708333	0	
27	N30	-2.315104	0	-2.708333	0	
28	N101	2.541667	0	-2.708333	0	
29	N102	-0.166667	0	-2.708333	0	
30	N103A	0.166667	0	-2.708333	0	
31	N104A	-2.541667	0	-2.927083	0	
32	N105	2.541667	0	-2.927083	0	
33	N131	2.458333	0	-3.071421	0	
34	N135	0.571615	0	-6.298857	0	
35	N144	-2.458333	0	-3.071421	0	
36	N148	-0.571615	0	-6.298857	0	
37	N86A	2.584629	0	-3.144338	0	
38	N86B	-2.584629	0	-3.144338	0	
39	N86C	-0.515625	0	-6.395833	0	
40	N87A	0.515625	0	-6.395833	0	
41	N86D	0.715429	0	-6.381888	0	
42	N86E	-0.715429	0	-6.381888	0	
43	N88A	0	0	-6.3125	0	
44	N87C	0.234238	0.166667	-6.3125	0	
45	N86G	0.234238	0	-6.3125	0	
46	N87B	-0.234238	0.166667	-6.3125	0	
47	N88C	-0.234238	0	-6.3125	0	
48	N87D	-1.046447	0	0.604167	0	
49	N88B	-1.074652	0	3.555315	0	
50	N89	-3.503038	0.166667	-0.650772	0	
51	N90	-1.187933	0.166667	3.359106	0	
52	N91	-2.345485	0	1.354167	0	
53	N92	-5.538954	0	3.197917	0	
54	N93	-3.503038	0	-0.650772	0	
55	N94	-1.187933	0	3.359106	0	
56	N95	-3.616319	0	-0.846981	0	
57	N96	-2.262152	0	1.498504	0	
58	N97	-2.428819	0	1.209829	0	
59	N98	-1.264095	0	3.66469	0	
60	N99	-3.805762	0	-0.737606	0	
61	N100	-3.889095	0	-0.593269	0	
62	N101A	-5.740777	0	2.654396	0	
63	N102A	-1.430762	0	3.66469	0	
64	N103	-5.169162	0	3.644461	0	
65	N104	-4.015391	0	-0.666185	0	
66	N105A	-1.430762	0	3.810523	0	
67	N106	-5.281142	0	3.644461	0	
68	N107	-5.796767	0	2.751372	0	
69	N108	-5.884591	0	2.571364	0	
70	N109	-5.169162	0	3.810523	0	
71	N110	-5.466785	0	3.15625	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N111	-5.583904	0.166667	2.953394	0	
73	N112	-5.583904	0	2.953394	0	
74	N113	-5.349667	0.166667	3.359106	0	
75	N114	-5.349667	0	3.359106	0	
76	N115	1.046447	0	0.604167	0	
77	N116	3.616319	0	-0.846981	0	
78	N117	1.187933	0.166667	3.359106	0	
79	N118	3.503038	0.166667	-0.650772	0	
80	N119	2.345485	0	1.354167	0	
81	N120	5.538954	0	3.197917	0	
82	N121	1.187933	0	3.359106	0	
83	N122	3.503038	0	-0.650772	0	
84	N123	1.074652	0	3.555315	0	
85	N124	2.428819	0	1.209829	0	
86	N125	2.262152	0	1.498504	0	
87	N126	3.805762	0	-0.737606	0	
88	N127	1.264095	0	3.66469	0	
89	N128	1.430762	0	3.66469	0	
90	N129	5.169162	0	3.644461	0	
91	N130	3.889095	0	-0.593269	0	
92	N131A	5.740777	0	2.654396	0	
93	N132	1.430762	0	3.810523	0	
94	N133	4.015391	0	-0.666186	0	
95	N134	5.796767	0	2.751372	0	
96	N135A	5.281142	0	3.644461	0	
97	N136	5.169162	0	3.810523	0	
98	N137	5.884591	0	2.571364	0	
99	N138	5.466785	0	3.15625	0	
100	N139	5.349667	0.166667	3.359106	0	
101	N140	5.349667	0	3.359106	0	
102	N141	5.583904	0.166667	2.953394	0	
103	N142	5.583904	0	2.953394	0	
104	N104B	0.154177	0	-7.354005	0	
105	N105B	6.445843	0	3.543482	0	
106	N106A	0.341677	0	-7.029245	0	
107	N107A	0.558183	0	-7.154245	0	
108	N108A	6.23751	0	3.182638	0	
109	N109A	6.454016	0	3.057638	0	
110	N110A	2.904177	0	-2.590865	0	
111	N111A	3.120683	0	-2.715865	0	
112	N112A	5.216677	0	1.414502	0	
113	N113A	5.433183	0	1.289502	0	
114	N114A	5.433183	-3.083333	1.289502	0	
115	N115A	5.433183	2.916667	1.289502	0	
116	N116A	6.454016	-3.083333	3.057638	0	
117	N117A	6.454016	2.916667	3.057638	0	
118	N118A	3.120683	-3.083333	-2.715865	0	
119	N119A	3.120683	2.916667	-2.715865	0	
120	N120A	0.558183	-3.083333	-7.154245	0	
121	N121A	0.558183	2.916667	-7.154245	0	
122	N122A	-6.445843	0	3.543482	0	
123	N123A	-0.154177	0	-7.354005	0	
124	N124A	-6.258343	0	3.218722	0	
125	N125A	-6.47485	0	3.093722	0	
126	N126A	-0.36251	0	-6.993161	0	
127	N127A	-0.579016	0	-7.118161	0	
128	N128A	-3.695843	0	-1.219658	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N129A	-3.91235	0	-1.344658	0	
130	N130A	-1.383343	0	-5.225026	0	
131	N131B	-1.59985	0	-5.350026	0	
132	N132A	-1.59985	-3.083333	-5.350026	0	
133	N133A	-1.59985	2.916667	-5.350026	0	
134	N134A	-0.579016	-3.083333	-7.118161	0	
135	N135B	-0.579016	2.916667	-7.118161	0	
136	N136A	-3.91235	-3.083333	-1.344658	0	
137	N137A	-3.91235	2.916667	-1.344658	0	
138	N138A	-6.47485	-3.083333	3.093722	0	
139	N139A	-6.47485	2.916667	3.093722	0	
140	N140A	6.25	2	3.810523	0	
141	N141A	-6.25	2	3.810523	0	
142	N142A	5.916667	2	3.810523	0	
143	N143	5.916667	2	4.060523	0	
144	N144A	-5.875	2	3.810523	0	
145	N145	-5.875	2	4.060523	0	
146	N146	0.791667	2	3.810523	0	
147	N147	0.791667	2	4.060523	0	
148	N148A	-3.833333	2	3.810523	0	
149	N149	-3.833333	2	4.060523	0	
150	N150	0.17501	2	-7.31792	0	
151	N151	6.42501	2	3.507397	0	
152	N152	0.341677	2	-7.029245	0	
153	N153	0.558183	2	-7.154245	0	
154	N154	6.23751	2	3.182638	0	
155	N155	6.454016	2	3.057638	0	
156	N156	2.904177	2	-2.590865	0	
157	N157	3.120683	2	-2.715865	0	
158	N158	5.216677	2	1.414502	0	
159	N159	5.433183	2	1.289502	0	
160	N160	-6.42501	2	3.507397	0	
161	N161	-0.17501	2	-7.31792	0	
162	N162	-6.258343	2	3.218722	0	
163	N163	-6.47485	2	3.093722	0	
164	N164	-0.36251	2	-6.993161	0	
165	N165	-0.579016	2	-7.118161	0	
166	N166	-3.695843	2	-1.219658	0	
167	N167	-3.91235	2	-1.344658	0	
168	N168	-1.383343	2	-5.225026	0	
169	N169	-1.59985	2	-5.350026	0	
170	N170	-5	2	3.810523	0	
171	N171	-5	2	3.643857	0	
172	N172	5	2	3.810523	0	
173	N173	5	2	3.643857	0	
174	N174	5.80001	2	2.424865	0	
175	N175	5.655672	2	2.508199	0	
176	N176	0.80001	2	-6.235389	0	
177	N177	0.655672	2	-6.152055	0	
178	N178	-0.80001	2	-6.235389	0	
179	N179	-0.655672	2	-6.152055	0	
180	N180	-5.80001	2	2.424865	0	
181	N181	-5.655672	2	2.508199	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE_3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL1/2x6	Beam	BAR	A36 Gr.36	Typical	3	.063	9	.237
4	Platform Crossme...	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
5	Grating Support	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
6	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Cross Arm Plate	PL3/8x6	Column	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101
8	Support Rail	PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
9	Support Rail Corner	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
10	Replacement Pipe	PIPE_2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	FACE	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
2	M4	N3	N27			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
3	M10	N101	N103A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
4	M19	N8	N9			RIGID	None	None	RIGID	Typical
5	M20	N10	N11			RIGID	None	None	RIGID	Typical
6	LIVE2	N12	N13			RIGID	None	None	RIGID	Typical
7	LIVE1	N14	N15			RIGID	None	None	RIGID	Typical
8	MP3A	N17	N16			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
9	MP4A	N19	N18			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
10	MP2A	N21	N20			Replacement ...	Column	Pipe	A53 Gr.B	Typical
11	MP1A	N23	N22			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
12	M43	N102	N5			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
13	M46	N86C	N87A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
14	M35A	N7	N30			RIGID	None	None	RIGID	Typical
15	M36A	N6	N29			RIGID	None	None	RIGID	Typical
16	M51B	N87C	N6			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
17	M52B	N7	N87B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
18	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
19	M58	N102	N24			RIGID	None	None	RIGID	Typical
20	M59	N24	N103A			RIGID	None	None	RIGID	Typical
21	M76	N101	N105			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
22	M77	N105	N131			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
23	M79	N131	N86A			RIGID	None	None	RIGID	Typical
24	M80	N87A	N135			Corner Plate	Beam	BAR	A36 Gr.36	Typical
25	M83	N135	N86D			RIGID	None	None	RIGID	Typical
26	M84	N5	N104A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
27	M85	N104A	N144			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
28	M88	N144	N86B			RIGID	None	None	RIGID	Typical
29	M91	N86C	N148			Corner Plate	Beam	BAR	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
30	M92	N148	N86E			RIGID	None	None	RIGID	Typical
31	M50	N88C	N88A			RIGID	None	None	RIGID	Typical
32	M51	N88A	N86G			RIGID	None	None	RIGID	Typical
33	M51A	N87C	N86G			RIGID	None	None	RIGID	Typical
34	M52A	N87D	N92			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
35	M53	N95	N97			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
36	M54	N96	N88B			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
37	M55	N106	N107			Corner Plate	Beam	BAR	A36 Gr.36	Typical
38	M56	N90	N94			RIGID	None	None	RIGID	Typical
39	M57	N89	N93			RIGID	None	None	RIGID	Typical
40	M58A	N111	N89			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
41	M59A	N90	N113			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
42	M60	N113	N114			RIGID	None	None	RIGID	Typical
43	M61	N96	N91			RIGID	None	None	RIGID	Typical
44	M62	N91	N97			RIGID	None	None	RIGID	Typical
45	M63	N95	N99			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
46	M64	N99	N100			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
47	M65	N100	N104			RIGID	None	None	RIGID	Typical
48	M66	N107	N101A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
49	M67	N101A	N108			RIGID	None	None	RIGID	Typical
50	M68	N88B	N98			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
51	M69	N98	N102A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
52	M70	N102A	N105A			RIGID	None	None	RIGID	Typical
53	M71	N106	N103			Corner Plate	Beam	BAR	A36 Gr.36	Typical
54	M72	N103	N109			RIGID	None	None	RIGID	Typical
55	M73	N114	N110			RIGID	None	None	RIGID	Typical
56	M74	N110	N112			RIGID	None	None	RIGID	Typical
57	M75	N111	N112			RIGID	None	None	RIGID	Typical
58	M76A	N115	N120			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
59	M77A	N123	N125			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
60	M78	N124	N116			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
61	M79A	N134	N135A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
62	M80A	N118	N122			RIGID	None	None	RIGID	Typical
63	M81	N117	N121			RIGID	None	None	RIGID	Typical
64	M82	N139	N117			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
65	M83A	N118	N141			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
66	M84A	N141	N142			RIGID	None	None	RIGID	Typical
67	M85A	N124	N119			RIGID	None	None	RIGID	Typical
68	M86	N119	N125			RIGID	None	None	RIGID	Typical
69	M87	N123	N127			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
70	M88A	N127	N128			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
71	M89	N128	N132			RIGID	None	None	RIGID	Typical
72	M90	N135A	N129			Corner Plate	Beam	BAR	A36 Gr.36	Typical
73	M91A	N129	N136			RIGID	None	None	RIGID	Typical
74	M92A	N116	N126			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
75	M93	N126	N130			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
76	M94	N130	N133			RIGID	None	None	RIGID	Typical
77	M95	N134	N131A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
78	M96	N131A	N137			RIGID	None	None	RIGID	Typical
79	M97	N142	N138			RIGID	None	None	RIGID	Typical
80	M98	N138	N140			RIGID	None	None	RIGID	Typical
81	M99	N139	N140			RIGID	None	None	RIGID	Typical
82	M82A	N104B	N105B			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
83	M83B	N106A	N107A			RIGID	None	None	RIGID	Typical
84	M84B	N108A	N109A			RIGID	None	None	RIGID	Typical
85	M85B	N110A	N111A			RIGID	None	None	RIGID	Typical
86	M86A	N112A	N113A			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
87	MP3C	N115A	N114A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
88	MP4C	N117A	N116A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
89	MP2C	N119A	N118A			Replacement ...	Column	Pipe	A53 Gr.B	Typical
90	MP1C	N121A	N120A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
91	M91B	N122A	N123A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
92	M92B	N124A	N125A			RIGID	None	None	RIGID	Typical
93	M93A	N126A	N127A			RIGID	None	None	RIGID	Typical
94	M94A	N128A	N129A			RIGID	None	None	RIGID	Typical
95	M95A	N130A	N131B			RIGID	None	None	RIGID	Typical
96	MP3B	N133A	N132A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
97	MP4B	N135B	N134A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
98	MP2B	N137A	N136A			Replacement ...	Column	Pipe	A53 Gr.B	Typical
99	MP1B	N139A	N138A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
100	M100	N142A	N143			RIGID	None	None	RIGID	Typical
101	M101	N144A	N145			RIGID	None	None	RIGID	Typical
102	M102	N146	N147			RIGID	None	None	RIGID	Typical
103	M103	N148A	N149			RIGID	None	None	RIGID	Typical
104	M104	N141A	N140A			Support Rail	Beam	Pipe	A53 Gr.B	Typical
105	M105	N152	N153			RIGID	None	None	RIGID	Typical
106	M106	N154	N155			RIGID	None	None	RIGID	Typical
107	M107	N156	N157			RIGID	None	None	RIGID	Typical
108	M108	N158	N159			RIGID	None	None	RIGID	Typical
109	M109	N151	N150			Support Rail	Beam	Pipe	A53 Gr.B	Typical
110	M110	N162	N163			RIGID	None	None	RIGID	Typical
111	M111	N164	N165			RIGID	None	None	RIGID	Typical
112	M112	N166	N167			RIGID	None	None	RIGID	Typical
113	M113	N168	N169			RIGID	None	None	RIGID	Typical
114	M114	N161	N160			Support Rail	Beam	Pipe	A53 Gr.B	Typical
115	M115	N170	N171			RIGID	None	None	RIGID	Typical
116	M116	N172	N173			RIGID	None	None	RIGID	Typical
117	M117	N174	N175			RIGID	None	None	RIGID	Typical
118	M118	N176	N177			RIGID	None	None	RIGID	Typical
119	M119	N178	N179			RIGID	None	None	RIGID	Typical
120	M120	N180	N181			RIGID	None	None	RIGID	Typical
121	M121	N171	N181		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
122	M122	N179	N177		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
123	M123	N175	N173		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	FACE						Yes	Default			None
2	M4						Yes				None
3	M10						Yes	Default			None
4	M19						Yes	** NA **			None
5	M20						Yes	** NA **			None
6	LIVE2						Yes	** NA **			None
7	LIVE1						Yes	** NA **			None
8	MP3A						Yes	** NA **			None
9	MP4A						Yes	** NA **			None
10	MP2A						Yes	** NA **			None
11	MP1A						Yes	** NA **			None
12	M43						Yes	Default			None
13	M46						Yes	Default			None
14	M35A						Yes	** NA **			None
15	M36A						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
16	M51B	OOOOOX	OOOOOX				Yes	Default			None
17	M52B	OOOOOX	OOOOOX				Yes	Default			None
18	M52						Yes	** NA **			None
19	M58						Yes	** NA **			None
20	M59						Yes	** NA **			None
21	M76						Yes	** NA **			None
22	M77						Yes	** NA **			None
23	M79		BenPIN				Yes	** NA **			None
24	M80						Yes				None
25	M83		BenPIN				Yes	** NA **			None
26	M84						Yes	** NA **			None
27	M85						Yes	** NA **			None
28	M88		BenPIN				Yes	** NA **			None
29	M91						Yes				None
30	M92		BenPIN				Yes	** NA **			None
31	M50						Yes	** NA **			None
32	M51						Yes	** NA **			None
33	M51A						Yes	** NA **			None
34	M52A						Yes				None
35	M53						Yes	Default			None
36	M54						Yes	Default			None
37	M55						Yes	Default			None
38	M56						Yes	** NA **			None
39	M57						Yes	** NA **			None
40	M58A	OOOOOX	OOOOOX				Yes	Default			None
41	M59A	OOOOOX	OOOOOX				Yes	Default			None
42	M60						Yes	** NA **			None
43	M61						Yes	** NA **			None
44	M62						Yes	** NA **			None
45	M63						Yes	** NA **			None
46	M64						Yes	** NA **			None
47	M65		BenPIN				Yes	** NA **			None
48	M66						Yes				None
49	M67		BenPIN				Yes	** NA **			None
50	M68						Yes	** NA **			None
51	M69						Yes	** NA **			None
52	M70		BenPIN				Yes	** NA **			None
53	M71						Yes				None
54	M72		BenPIN				Yes	** NA **			None
55	M73						Yes	** NA **			None
56	M74						Yes	** NA **			None
57	M75						Yes	** NA **			None
58	M76A						Yes				None
59	M77A						Yes	Default			None
60	M78						Yes	Default			None
61	M79A						Yes	Default			None
62	M80A						Yes	** NA **			None
63	M81						Yes	** NA **			None
64	M82	OOOOOX	OOOOOX				Yes	Default			None
65	M83A	OOOOOX	OOOOOX				Yes	Default			None
66	M84A						Yes	** NA **			None
67	M85A						Yes	** NA **			None
68	M86						Yes	** NA **			None
69	M87						Yes	** NA **			None
70	M88A						Yes	** NA **			None
71	M89		BenPIN				Yes	** NA **			None
72	M90						Yes				None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
73	M91A		BenPIN				Yes	** NA **			None
74	M92A						Yes	** NA **			None
75	M93						Yes	** NA **			None
76	M94		BenPIN				Yes	** NA **			None
77	M95						Yes				None
78	M96		BenPIN				Yes	** NA **			None
79	M97						Yes	** NA **			None
80	M98						Yes	** NA **			None
81	M99						Yes	** NA **			None
82	M82A						Yes	Default			None
83	M83B						Yes	** NA **			None
84	M84B						Yes	** NA **			None
85	M85B						Yes	** NA **			None
86	M86A						Yes	** NA **			None
87	MP3C						Yes	** NA **			None
88	MP4C						Yes	** NA **			None
89	MP2C						Yes	** NA **			None
90	MP1C						Yes	** NA **			None
91	M91B						Yes	Default			None
92	M92B						Yes	** NA **			None
93	M93A						Yes	** NA **			None
94	M94A						Yes	** NA **			None
95	M95A						Yes	** NA **			None
96	MP3B						Yes	** NA **			None
97	MP4B						Yes	** NA **			None
98	MP2B						Yes	** NA **			None
99	MP1B						Yes	** NA **			None
100	M100						Yes	** NA **			None
101	M101						Yes	** NA **			None
102	M102						Yes	** NA **			None
103	M103						Yes	** NA **			None
104	M104						Yes				None
105	M105						Yes	** NA **			None
106	M106						Yes	** NA **			None
107	M107						Yes	** NA **			None
108	M108						Yes	** NA **			None
109	M109						Yes				None
110	M110						Yes	** NA **			None
111	M111						Yes	** NA **			None
112	M112						Yes	** NA **			None
113	M113						Yes	** NA **			None
114	M114						Yes				None
115	M115	OOOOOX					Yes	** NA **			None
116	M116	OOOOOX					Yes	** NA **			None
117	M117	OOOOOX					Yes	** NA **			None
118	M118	OOOOOX					Yes	** NA **			None
119	M119	OOOOOX					Yes	** NA **			None
120	M120	OOOOOX					Yes	** NA **			None
121	M121						Yes				None
122	M122						Yes				None
123	M123						Yes				None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-43.55	2.38

Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP3A	My	-.022	2.38
3	MP3A	Mz	0	2.38
4	MP3A	Y	-43.55	3.63
5	MP3A	My	-.022	3.63
6	MP3A	Mz	0	3.63
7	MP3B	Y	-43.55	2.38
8	MP3B	My	.011	2.38
9	MP3B	Mz	-.019	2.38
10	MP3B	Y	-43.55	3.63
11	MP3B	My	.011	3.63
12	MP3B	Mz	-.019	3.63
13	MP3C	Y	-43.55	2.38
14	MP3C	My	.011	2.38
15	MP3C	Mz	.019	2.38
16	MP3C	Y	-43.55	3.63
17	MP3C	My	.011	3.63
18	MP3C	Mz	.019	3.63
19	MP2A	Y	-23	1
20	MP2A	My	-.011	1
21	MP2A	Mz	.015	1
22	MP2A	Y	-23	5
23	MP2A	My	-.011	5
24	MP2A	Mz	.015	5
25	MP2B	Y	-23	1
26	MP2B	My	-.008	1
27	MP2B	Mz	-.018	1
28	MP2B	Y	-23	5
29	MP2B	My	-.008	5
30	MP2B	Mz	-.018	5
31	MP2C	Y	-23	1
32	MP2C	My	.019	1
33	MP2C	Mz	.002	1
34	MP2C	Y	-23	5
35	MP2C	My	.019	5
36	MP2C	Mz	.002	5
37	MP2A	Y	-23	1
38	MP2A	My	-.011	1
39	MP2A	Mz	-.015	1
40	MP2A	Y	-23	5
41	MP2A	My	-.011	5
42	MP2A	Mz	-.015	5
43	MP2B	Y	-23	1
44	MP2B	My	.019	1
45	MP2B	Mz	-.002	1
46	MP2B	Y	-23	5
47	MP2B	My	.019	5
48	MP2B	Mz	-.002	5
49	MP2C	Y	-23	1
50	MP2C	My	-.008	1
51	MP2C	Mz	.018	1
52	MP2C	Y	-23	5
53	MP2C	My	-.008	5
54	MP2C	Mz	.018	5
55	MP2A	Y	-74.7	1.5
56	MP2A	My	.037	1.5
57	MP2A	Mz	0	1.5
58	MP2B	Y	-74.7	1.5

Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP2B	My	-.019	1.5
60	MP2B	Mz	.032	1.5
61	MP2C	Y	-74.7	1.5
62	MP2C	My	-.019	1.5
63	MP2C	Mz	-.032	1.5
64	MP1A	Y	-70.3	1.5
65	MP1A	My	.035	1.5
66	MP1A	Mz	0	1.5
67	MP1B	Y	-70.3	1.5
68	MP1B	My	-.018	1.5
69	MP1B	Mz	.03	1.5
70	MP1C	Y	-70.3	1.5
71	MP1C	My	-.018	1.5
72	MP1C	Mz	-.03	1.5
73	MP1A	Y	-10.5	1
74	MP1A	My	-.005	1
75	MP1A	Mz	0	1
76	MP1A	Y	-10.5	5
77	MP1A	My	-.005	5
78	MP1A	Mz	0	5
79	MP1B	Y	-10.5	1
80	MP1B	My	.003	1
81	MP1B	Mz	-.005	1
82	MP1B	Y	-10.5	5
83	MP1B	My	.003	5
84	MP1B	Mz	-.005	5
85	MP1C	Y	-10.5	1
86	MP1C	My	.003	1
87	MP1C	Mz	.005	1
88	MP1C	Y	-10.5	5
89	MP1C	My	.003	5
90	MP1C	Mz	.005	5
91	MP4A	Y	-10.5	1
92	MP4A	My	-.005	1
93	MP4A	Mz	0	1
94	MP4A	Y	-10.5	5
95	MP4A	My	-.005	5
96	MP4A	Mz	0	5
97	MP4B	Y	-10.5	1
98	MP4B	My	.003	1
99	MP4B	Mz	-.005	1
100	MP4B	Y	-10.5	5
101	MP4B	My	.003	5
102	MP4B	Mz	-.005	5
103	MP4C	Y	-10.5	1
104	MP4C	My	.003	1
105	MP4C	Mz	.005	1
106	MP4C	Y	-10.5	5
107	MP4C	My	.003	5
108	MP4C	Mz	.005	5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-35.279	2.38
2	MP3A	My	-.018	2.38
3	MP3A	Mz	0	2.38

Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP3A	Y	-35.279	3.63
5	MP3A	My	-.018	3.63
6	MP3A	Mz	0	3.63
7	MP3B	Y	-35.279	2.38
8	MP3B	My	.009	2.38
9	MP3B	Mz	-.015	2.38
10	MP3B	Y	-35.279	3.63
11	MP3B	My	.009	3.63
12	MP3B	Mz	-.015	3.63
13	MP3C	Y	-35.279	2.38
14	MP3C	My	.009	2.38
15	MP3C	Mz	.015	2.38
16	MP3C	Y	-35.279	3.63
17	MP3C	My	.009	3.63
18	MP3C	Mz	.015	3.63
19	MP2A	Y	-81.713	1
20	MP2A	My	-.041	1
21	MP2A	Mz	.054	1
22	MP2A	Y	-81.713	5
23	MP2A	My	-.041	5
24	MP2A	Mz	.054	5
25	MP2B	Y	-81.713	1
26	MP2B	My	-.027	1
27	MP2B	Mz	-.063	1
28	MP2B	Y	-81.713	5
29	MP2B	My	-.027	5
30	MP2B	Mz	-.063	5
31	MP2C	Y	-81.713	1
32	MP2C	My	.068	1
33	MP2C	Mz	.008	1
34	MP2C	Y	-81.713	5
35	MP2C	My	.068	5
36	MP2C	Mz	.008	5
37	MP2A	Y	-81.713	1
38	MP2A	My	-.041	1
39	MP2A	Mz	-.054	1
40	MP2A	Y	-81.713	5
41	MP2A	My	-.041	5
42	MP2A	Mz	-.054	5
43	MP2B	Y	-81.713	1
44	MP2B	My	.068	1
45	MP2B	Mz	-.008	1
46	MP2B	Y	-81.713	5
47	MP2B	My	.068	5
48	MP2B	Mz	-.008	5
49	MP2C	Y	-81.713	1
50	MP2C	My	-.027	1
51	MP2C	Mz	.063	1
52	MP2C	Y	-81.713	5
53	MP2C	My	-.027	5
54	MP2C	Mz	.063	5
55	MP2A	Y	-44.473	1.5
56	MP2A	My	.022	1.5
57	MP2A	Mz	0	1.5
58	MP2B	Y	-44.473	1.5
59	MP2B	My	-.011	1.5
60	MP2B	Mz	.019	1.5

Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP2C	Y	-44.473	1.5
62	MP2C	My	-.011	1.5
63	MP2C	Mz	-.019	1.5
64	MP1A	Y	-42.35	1.5
65	MP1A	My	.021	1.5
66	MP1A	Mz	0	1.5
67	MP1B	Y	-42.35	1.5
68	MP1B	My	-.011	1.5
69	MP1B	Mz	.018	1.5
70	MP1C	Y	-42.35	1.5
71	MP1C	My	-.011	1.5
72	MP1C	Mz	-.018	1.5
73	MP1A	Y	-57.932	1
74	MP1A	My	-.029	1
75	MP1A	Mz	0	1
76	MP1A	Y	-57.932	5
77	MP1A	My	-.029	5
78	MP1A	Mz	0	5
79	MP1B	Y	-57.932	1
80	MP1B	My	.014	1
81	MP1B	Mz	-.025	1
82	MP1B	Y	-57.932	5
83	MP1B	My	.014	5
84	MP1B	Mz	-.025	5
85	MP1C	Y	-57.932	1
86	MP1C	My	.014	1
87	MP1C	Mz	.025	1
88	MP1C	Y	-57.932	5
89	MP1C	My	.014	5
90	MP1C	Mz	.025	5
91	MP4A	Y	-57.932	1
92	MP4A	My	-.029	1
93	MP4A	Mz	0	1
94	MP4A	Y	-57.932	5
95	MP4A	My	-.029	5
96	MP4A	Mz	0	5
97	MP4B	Y	-57.932	1
98	MP4B	My	.014	1
99	MP4B	Mz	-.025	1
100	MP4B	Y	-57.932	5
101	MP4B	My	.014	5
102	MP4B	Mz	-.025	5
103	MP4C	Y	-57.932	1
104	MP4C	My	.014	1
105	MP4C	Mz	.025	1
106	MP4C	Y	-57.932	5
107	MP4C	My	.014	5
108	MP4C	Mz	.025	5

Member Point Loads (BLC 3 : Antenna Wo (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	2.38
2	MP3A	Z	-100.782	2.38
3	MP3A	Mx	0	2.38
4	MP3A	X	0	3.63
5	MP3A	Z	-100.782	3.63

Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP3A	Mx	0	3.63
7	MP3B	X	0	2.38
8	MP3B	Z	-54.787	2.38
9	MP3B	Mx	.024	2.38
10	MP3B	X	0	3.63
11	MP3B	Z	-54.787	3.63
12	MP3B	Mx	.024	3.63
13	MP3C	X	0	2.38
14	MP3C	Z	-54.787	2.38
15	MP3C	Mx	-.024	2.38
16	MP3C	X	0	3.63
17	MP3C	Z	-54.787	3.63
18	MP3C	Mx	-.024	3.63
19	MP2A	X	0	1
20	MP2A	Z	-211.642	1
21	MP2A	Mx	-.141	1
22	MP2A	X	0	5
23	MP2A	Z	-211.642	5
24	MP2A	Mx	-.141	5
25	MP2B	X	0	1
26	MP2B	Z	-170.921	1
27	MP2B	Mx	.131	1
28	MP2B	X	0	5
29	MP2B	Z	-170.921	5
30	MP2B	Mx	.131	5
31	MP2C	X	0	1
32	MP2C	Z	-170.921	1
33	MP2C	Mx	-.017	1
34	MP2C	X	0	5
35	MP2C	Z	-170.921	5
36	MP2C	Mx	-.017	5
37	MP2A	X	0	1
38	MP2A	Z	-211.642	1
39	MP2A	Mx	.141	1
40	MP2A	X	0	5
41	MP2A	Z	-211.642	5
42	MP2A	Mx	.141	5
43	MP2B	X	0	1
44	MP2B	Z	-170.921	1
45	MP2B	Mx	.017	1
46	MP2B	X	0	5
47	MP2B	Z	-170.921	5
48	MP2B	Mx	.017	5
49	MP2C	X	0	1
50	MP2C	Z	-170.921	1
51	MP2C	Mx	-.131	1
52	MP2C	X	0	5
53	MP2C	Z	-170.921	5
54	MP2C	Mx	-.131	5
55	MP2A	X	0	1.5
56	MP2A	Z	-80.197	1.5
57	MP2A	Mx	0	1.5
58	MP2B	X	0	1.5
59	MP2B	Z	-60.255	1.5
60	MP2B	Mx	-.026	1.5
61	MP2C	X	0	1.5
62	MP2C	Z	-60.255	1.5

Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2C	Mx	.026	1.5
64	MP1A	X	0	1.5
65	MP1A	Z	-80.197	1.5
66	MP1A	Mx	0	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	-56.636	1.5
69	MP1B	Mx	-.025	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	-56.636	1.5
72	MP1C	Mx	.025	1.5
73	MP1A	X	0	1
74	MP1A	Z	-92.848	1
75	MP1A	Mx	0	1
76	MP1A	X	0	5
77	MP1A	Z	-92.848	5
78	MP1A	Mx	0	5
79	MP1B	X	0	1
80	MP1B	Z	-161.975	1
81	MP1B	Mx	.07	1
82	MP1B	X	0	5
83	MP1B	Z	-161.975	5
84	MP1B	Mx	.07	5
85	MP1C	X	0	1
86	MP1C	Z	-161.975	1
87	MP1C	Mx	-.07	1
88	MP1C	X	0	5
89	MP1C	Z	-161.975	5
90	MP1C	Mx	-.07	5
91	MP4A	X	0	1
92	MP4A	Z	-92.848	1
93	MP4A	Mx	0	1
94	MP4A	X	0	5
95	MP4A	Z	-92.848	5
96	MP4A	Mx	0	5
97	MP4B	X	0	1
98	MP4B	Z	-161.975	1
99	MP4B	Mx	.07	1
100	MP4B	X	0	5
101	MP4B	Z	-161.975	5
102	MP4B	Mx	.07	5
103	MP4C	X	0	1
104	MP4C	Z	-161.975	1
105	MP4C	Mx	-.07	1
106	MP4C	X	0	5
107	MP4C	Z	-161.975	5
108	MP4C	Mx	-.07	5

Member Point Loads (BLC 4 : Antenna Wo (30 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	42.725	2.38
2	MP3A	Z	-74.002	2.38
3	MP3A	Mx	-.021	2.38
4	MP3A	X	42.725	3.63
5	MP3A	Z	-74.002	3.63
6	MP3A	Mx	-.021	3.63
7	MP3B	X	19.728	2.38

Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP3B	Z	-34.17	2.38
9	MP3B	Mx	.02	2.38
10	MP3B	X	19.728	3.63
11	MP3B	Z	-34.17	3.63
12	MP3B	Mx	.02	3.63
13	MP3C	X	42.725	2.38
14	MP3C	Z	-74.002	2.38
15	MP3C	Mx	-.021	2.38
16	MP3C	X	42.725	3.63
17	MP3C	Z	-74.002	3.63
18	MP3C	Mx	-.021	3.63
19	MP2A	X	99.034	1
20	MP2A	Z	-171.532	1
21	MP2A	Mx	-.164	1
22	MP2A	X	99.034	5
23	MP2A	Z	-171.532	5
24	MP2A	Mx	-.164	5
25	MP2B	X	78.674	1
26	MP2B	Z	-136.267	1
27	MP2B	Mx	.079	1
28	MP2B	X	78.674	5
29	MP2B	Z	-136.267	5
30	MP2B	Mx	.079	5
31	MP2C	X	99.034	1
32	MP2C	Z	-171.532	1
33	MP2C	Mx	.065	1
34	MP2C	X	99.034	5
35	MP2C	Z	-171.532	5
36	MP2C	Mx	.065	5
37	MP2A	X	99.034	1
38	MP2A	Z	-171.532	1
39	MP2A	Mx	.065	1
40	MP2A	X	99.034	5
41	MP2A	Z	-171.532	5
42	MP2A	Mx	.065	5
43	MP2B	X	78.674	1
44	MP2B	Z	-136.267	1
45	MP2B	Mx	.079	1
46	MP2B	X	78.674	5
47	MP2B	Z	-136.267	5
48	MP2B	Mx	.079	5
49	MP2C	X	99.034	1
50	MP2C	Z	-171.532	1
51	MP2C	Mx	-.164	1
52	MP2C	X	99.034	5
53	MP2C	Z	-171.532	5
54	MP2C	Mx	-.164	5
55	MP2A	X	36.775	1.5
56	MP2A	Z	-63.695	1.5
57	MP2A	Mx	.018	1.5
58	MP2B	X	26.804	1.5
59	MP2B	Z	-46.425	1.5
60	MP2B	Mx	-.027	1.5
61	MP2C	X	36.775	1.5
62	MP2C	Z	-63.695	1.5
63	MP2C	Mx	.018	1.5
64	MP1A	X	36.172	1.5

Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP1A	Z	-62.651	1.5
66	MP1A	Mx	.018	1.5
67	MP1B	X	24.391	1.5
68	MP1B	Z	-42.247	1.5
69	MP1B	Mx	-.024	1.5
70	MP1C	X	36.172	1.5
71	MP1C	Z	-62.651	1.5
72	MP1C	Mx	.018	1.5
73	MP1A	X	57.945	1
74	MP1A	Z	-100.364	1
75	MP1A	Mx	-.029	1
76	MP1A	X	57.945	5
77	MP1A	Z	-100.364	5
78	MP1A	Mx	-.029	5
79	MP1B	X	92.509	1
80	MP1B	Z	-160.23	1
81	MP1B	Mx	.093	1
82	MP1B	X	92.509	5
83	MP1B	Z	-160.23	5
84	MP1B	Mx	.093	5
85	MP1C	X	57.945	1
86	MP1C	Z	-100.364	1
87	MP1C	Mx	-.029	1
88	MP1C	X	57.945	5
89	MP1C	Z	-100.364	5
90	MP1C	Mx	-.029	5
91	MP4A	X	57.945	1
92	MP4A	Z	-100.364	1
93	MP4A	Mx	-.029	1
94	MP4A	X	57.945	5
95	MP4A	Z	-100.364	5
96	MP4A	Mx	-.029	5
97	MP4B	X	92.509	1
98	MP4B	Z	-160.23	1
99	MP4B	Mx	.093	1
100	MP4B	X	92.509	5
101	MP4B	Z	-160.23	5
102	MP4B	Mx	.093	5
103	MP4C	X	57.945	1
104	MP4C	Z	-100.364	1
105	MP4C	Mx	-.029	1
106	MP4C	X	57.945	5
107	MP4C	Z	-100.364	5
108	MP4C	Mx	-.029	5

Member Point Loads (BLC 5 : Antenna Wo (60 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	47.447	2.38
2	MP3A	Z	-27.394	2.38
3	MP3A	Mx	-.024	2.38
4	MP3A	X	47.447	3.63
5	MP3A	Z	-27.394	3.63
6	MP3A	Mx	-.024	3.63
7	MP3B	X	47.447	2.38
8	MP3B	Z	-27.394	2.38
9	MP3B	Mx	.024	2.38

Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP3B	X	47.447	3.63
11	MP3B	Z	-27.394	3.63
12	MP3B	Mx	.024	3.63
13	MP3C	X	87.28	2.38
14	MP3C	Z	-50.391	2.38
15	MP3C	Mx	0	2.38
16	MP3C	X	87.28	3.63
17	MP3C	Z	-50.391	3.63
18	MP3C	Mx	0	3.63
19	MP2A	X	148.022	1
20	MP2A	Z	-85.46	1
21	MP2A	Mx	-.131	1
22	MP2A	X	148.022	5
23	MP2A	Z	-85.46	5
24	MP2A	Mx	-.131	5
25	MP2B	X	148.022	1
26	MP2B	Z	-85.46	1
27	MP2B	Mx	.017	1
28	MP2B	X	148.022	5
29	MP2B	Z	-85.46	5
30	MP2B	Mx	.017	5
31	MP2C	X	183.287	1
32	MP2C	Z	-105.821	1
33	MP2C	Mx	.141	1
34	MP2C	X	183.287	5
35	MP2C	Z	-105.821	5
36	MP2C	Mx	.141	5
37	MP2A	X	148.022	1
38	MP2A	Z	-85.46	1
39	MP2A	Mx	-.017	1
40	MP2A	X	148.022	5
41	MP2A	Z	-85.46	5
42	MP2A	Mx	-.017	5
43	MP2B	X	148.022	1
44	MP2B	Z	-85.46	1
45	MP2B	Mx	.131	1
46	MP2B	X	148.022	5
47	MP2B	Z	-85.46	5
48	MP2B	Mx	.131	5
49	MP2C	X	183.287	1
50	MP2C	Z	-105.821	1
51	MP2C	Mx	-.141	1
52	MP2C	X	183.287	5
53	MP2C	Z	-105.821	5
54	MP2C	Mx	-.141	5
55	MP2A	X	52.182	1.5
56	MP2A	Z	-30.127	1.5
57	MP2A	Mx	.026	1.5
58	MP2B	X	52.182	1.5
59	MP2B	Z	-30.127	1.5
60	MP2B	Mx	-.026	1.5
61	MP2C	X	69.452	1.5
62	MP2C	Z	-40.098	1.5
63	MP2C	Mx	0	1.5
64	MP1A	X	49.048	1.5
65	MP1A	Z	-28.318	1.5
66	MP1A	Mx	.025	1.5

Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP1B	X	49.048	1.5
68	MP1B	Z	-28.318	1.5
69	MP1B	Mx	-.025	1.5
70	MP1C	X	69.452	1.5
71	MP1C	Z	-40.098	1.5
72	MP1C	Mx	0	1.5
73	MP1A	X	140.274	1
74	MP1A	Z	-80.987	1
75	MP1A	Mx	-.07	1
76	MP1A	X	140.274	5
77	MP1A	Z	-80.987	5
78	MP1A	Mx	-.07	5
79	MP1B	X	140.274	1
80	MP1B	Z	-80.987	1
81	MP1B	Mx	.07	1
82	MP1B	X	140.274	5
83	MP1B	Z	-80.987	5
84	MP1B	Mx	.07	5
85	MP1C	X	80.409	1
86	MP1C	Z	-46.424	1
87	MP1C	Mx	0	1
88	MP1C	X	80.409	5
89	MP1C	Z	-46.424	5
90	MP1C	Mx	0	5
91	MP4A	X	140.274	1
92	MP4A	Z	-80.987	1
93	MP4A	Mx	-.07	1
94	MP4A	X	140.274	5
95	MP4A	Z	-80.987	5
96	MP4A	Mx	-.07	5
97	MP4B	X	140.274	1
98	MP4B	Z	-80.987	1
99	MP4B	Mx	.07	1
100	MP4B	X	140.274	5
101	MP4B	Z	-80.987	5
102	MP4B	Mx	.07	5
103	MP4C	X	80.409	1
104	MP4C	Z	-46.424	1
105	MP4C	Mx	0	1
106	MP4C	X	80.409	5
107	MP4C	Z	-46.424	5
108	MP4C	Mx	0	5

Member Point Loads (BLC 6 : Antenna Wo (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	39.456	2.38
2	MP3A	Z	0	2.38
3	MP3A	Mx	-.02	2.38
4	MP3A	X	39.456	3.63
5	MP3A	Z	0	3.63
6	MP3A	Mx	-.02	3.63
7	MP3B	X	85.45	2.38
8	MP3B	Z	0	2.38
9	MP3B	Mx	.021	2.38
10	MP3B	X	85.45	3.63
11	MP3B	Z	0	3.63

Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP3B	Mx	.021	3.63
13	MP3C	X	85.45	2.38
14	MP3C	Z	0	2.38
15	MP3C	Mx	.021	2.38
16	MP3C	X	85.45	3.63
17	MP3C	Z	0	3.63
18	MP3C	Mx	.021	3.63
19	MP2A	X	157.347	1
20	MP2A	Z	0	1
21	MP2A	Mx	-.079	1
22	MP2A	X	157.347	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.079	5
25	MP2B	X	198.068	1
26	MP2B	Z	0	1
27	MP2B	Mx	-.065	1
28	MP2B	X	198.068	5
29	MP2B	Z	0	5
30	MP2B	Mx	-.065	5
31	MP2C	X	198.068	1
32	MP2C	Z	0	1
33	MP2C	Mx	.164	1
34	MP2C	X	198.068	5
35	MP2C	Z	0	5
36	MP2C	Mx	.164	5
37	MP2A	X	157.347	1
38	MP2A	Z	0	1
39	MP2A	Mx	-.079	1
40	MP2A	X	157.347	5
41	MP2A	Z	0	5
42	MP2A	Mx	-.079	5
43	MP2B	X	198.068	1
44	MP2B	Z	0	1
45	MP2B	Mx	.164	1
46	MP2B	X	198.068	5
47	MP2B	Z	0	5
48	MP2B	Mx	.164	5
49	MP2C	X	198.068	1
50	MP2C	Z	0	1
51	MP2C	Mx	-.065	1
52	MP2C	X	198.068	5
53	MP2C	Z	0	5
54	MP2C	Mx	-.065	5
55	MP2A	X	53.607	1.5
56	MP2A	Z	0	1.5
57	MP2A	Mx	.027	1.5
58	MP2B	X	73.549	1.5
59	MP2B	Z	0	1.5
60	MP2B	Mx	-.018	1.5
61	MP2C	X	73.549	1.5
62	MP2C	Z	0	1.5
63	MP2C	Mx	-.018	1.5
64	MP1A	X	48.783	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	.024	1.5
67	MP1B	X	72.343	1.5
68	MP1B	Z	0	1.5

Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP1B	Mx	-.018	1.5
70	MP1C	X	72.343	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	-.018	1.5
73	MP1A	X	185.017	1
74	MP1A	Z	0	1
75	MP1A	Mx	-.093	1
76	MP1A	X	185.017	5
77	MP1A	Z	0	5
78	MP1A	Mx	-.093	5
79	MP1B	X	115.89	1
80	MP1B	Z	0	1
81	MP1B	Mx	.029	1
82	MP1B	X	115.89	5
83	MP1B	Z	0	5
84	MP1B	Mx	.029	5
85	MP1C	X	115.89	1
86	MP1C	Z	0	1
87	MP1C	Mx	.029	1
88	MP1C	X	115.89	5
89	MP1C	Z	0	5
90	MP1C	Mx	.029	5
91	MP4A	X	185.017	1
92	MP4A	Z	0	1
93	MP4A	Mx	-.093	1
94	MP4A	X	185.017	5
95	MP4A	Z	0	5
96	MP4A	Mx	-.093	5
97	MP4B	X	115.89	1
98	MP4B	Z	0	1
99	MP4B	Mx	.029	1
100	MP4B	X	115.89	5
101	MP4B	Z	0	5
102	MP4B	Mx	.029	5
103	MP4C	X	115.89	1
104	MP4C	Z	0	1
105	MP4C	Mx	.029	1
106	MP4C	X	115.89	5
107	MP4C	Z	0	5
108	MP4C	Mx	.029	5

Member Point Loads (BLC 7 : Antenna Wo (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	47.447	2.38
2	MP3A	Z	27.394	2.38
3	MP3A	Mx	-.024	2.38
4	MP3A	X	47.447	3.63
5	MP3A	Z	27.394	3.63
6	MP3A	Mx	-.024	3.63
7	MP3B	X	87.28	2.38
8	MP3B	Z	50.391	2.38
9	MP3B	Mx	0	2.38
10	MP3B	X	87.28	3.63
11	MP3B	Z	50.391	3.63
12	MP3B	Mx	0	3.63
13	MP3C	X	47.447	2.38

Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP3C	Z	27.394	2.38
15	MP3C	Mx	.024	2.38
16	MP3C	X	47.447	3.63
17	MP3C	Z	27.394	3.63
18	MP3C	Mx	.024	3.63
19	MP2A	X	148.022	1
20	MP2A	Z	85.46	1
21	MP2A	Mx	-.017	1
22	MP2A	X	148.022	5
23	MP2A	Z	85.46	5
24	MP2A	Mx	-.017	5
25	MP2B	X	183.287	1
26	MP2B	Z	105.821	1
27	MP2B	Mx	-.141	1
28	MP2B	X	183.287	5
29	MP2B	Z	105.821	5
30	MP2B	Mx	-.141	5
31	MP2C	X	148.022	1
32	MP2C	Z	85.46	1
33	MP2C	Mx	.131	1
34	MP2C	X	148.022	5
35	MP2C	Z	85.46	5
36	MP2C	Mx	.131	5
37	MP2A	X	148.022	1
38	MP2A	Z	85.46	1
39	MP2A	Mx	-.131	1
40	MP2A	X	148.022	5
41	MP2A	Z	85.46	5
42	MP2A	Mx	-.131	5
43	MP2B	X	183.287	1
44	MP2B	Z	105.821	1
45	MP2B	Mx	.141	1
46	MP2B	X	183.287	5
47	MP2B	Z	105.821	5
48	MP2B	Mx	.141	5
49	MP2C	X	148.022	1
50	MP2C	Z	85.46	1
51	MP2C	Mx	.017	1
52	MP2C	X	148.022	5
53	MP2C	Z	85.46	5
54	MP2C	Mx	.017	5
55	MP2A	X	52.182	1.5
56	MP2A	Z	30.127	1.5
57	MP2A	Mx	.026	1.5
58	MP2B	X	69.452	1.5
59	MP2B	Z	40.098	1.5
60	MP2B	Mx	0	1.5
61	MP2C	X	52.182	1.5
62	MP2C	Z	30.127	1.5
63	MP2C	Mx	-.026	1.5
64	MP1A	X	49.048	1.5
65	MP1A	Z	28.318	1.5
66	MP1A	Mx	.025	1.5
67	MP1B	X	69.452	1.5
68	MP1B	Z	40.098	1.5
69	MP1B	Mx	0	1.5
70	MP1C	X	49.048	1.5

Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
71	MP1C	Z	28.318	1.5
72	MP1C	Mx	-.025	1.5
73	MP1A	X	140.274	1
74	MP1A	Z	80.987	1
75	MP1A	Mx	-.07	1
76	MP1A	X	140.274	5
77	MP1A	Z	80.987	5
78	MP1A	Mx	-.07	5
79	MP1B	X	80.409	1
80	MP1B	Z	46.424	1
81	MP1B	Mx	0	1
82	MP1B	X	80.409	5
83	MP1B	Z	46.424	5
84	MP1B	Mx	0	5
85	MP1C	X	140.274	1
86	MP1C	Z	80.987	1
87	MP1C	Mx	.07	1
88	MP1C	X	140.274	5
89	MP1C	Z	80.987	5
90	MP1C	Mx	.07	5
91	MP4A	X	140.274	1
92	MP4A	Z	80.987	1
93	MP4A	Mx	-.07	1
94	MP4A	X	140.274	5
95	MP4A	Z	80.987	5
96	MP4A	Mx	-.07	5
97	MP4B	X	80.409	1
98	MP4B	Z	46.424	1
99	MP4B	Mx	0	1
100	MP4B	X	80.409	5
101	MP4B	Z	46.424	5
102	MP4B	Mx	0	5
103	MP4C	X	140.274	1
104	MP4C	Z	80.987	1
105	MP4C	Mx	.07	1
106	MP4C	X	140.274	5
107	MP4C	Z	80.987	5
108	MP4C	Mx	.07	5

Member Point Loads (BLC 8 : Antenna Wo (150 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	42.725	2.38
2	MP3A	Z	74.002	2.38
3	MP3A	Mx	-.021	2.38
4	MP3A	X	42.725	3.63
5	MP3A	Z	74.002	3.63
6	MP3A	Mx	-.021	3.63
7	MP3B	X	42.725	2.38
8	MP3B	Z	74.002	2.38
9	MP3B	Mx	-.021	2.38
10	MP3B	X	42.725	3.63
11	MP3B	Z	74.002	3.63
12	MP3B	Mx	-.021	3.63
13	MP3C	X	19.728	2.38
14	MP3C	Z	34.17	2.38
15	MP3C	Mx	.02	2.38

Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP3C	X	19.728	3.63
17	MP3C	Z	34.17	3.63
18	MP3C	Mx	.02	3.63
19	MP2A	X	99.034	1
20	MP2A	Z	171.532	1
21	MP2A	Mx	.065	1
22	MP2A	X	99.034	5
23	MP2A	Z	171.532	5
24	MP2A	Mx	.065	5
25	MP2B	X	99.034	1
26	MP2B	Z	171.532	1
27	MP2B	Mx	-.164	1
28	MP2B	X	99.034	5
29	MP2B	Z	171.532	5
30	MP2B	Mx	-.164	5
31	MP2C	X	78.674	1
32	MP2C	Z	136.267	1
33	MP2C	Mx	.079	1
34	MP2C	X	78.674	5
35	MP2C	Z	136.267	5
36	MP2C	Mx	.079	5
37	MP2A	X	99.034	1
38	MP2A	Z	171.532	1
39	MP2A	Mx	-.164	1
40	MP2A	X	99.034	5
41	MP2A	Z	171.532	5
42	MP2A	Mx	-.164	5
43	MP2B	X	99.034	1
44	MP2B	Z	171.532	1
45	MP2B	Mx	.065	1
46	MP2B	X	99.034	5
47	MP2B	Z	171.532	5
48	MP2B	Mx	.065	5
49	MP2C	X	78.674	1
50	MP2C	Z	136.267	1
51	MP2C	Mx	.079	1
52	MP2C	X	78.674	5
53	MP2C	Z	136.267	5
54	MP2C	Mx	.079	5
55	MP2A	X	36.775	1.5
56	MP2A	Z	63.695	1.5
57	MP2A	Mx	.018	1.5
58	MP2B	X	36.775	1.5
59	MP2B	Z	63.695	1.5
60	MP2B	Mx	.018	1.5
61	MP2C	X	26.804	1.5
62	MP2C	Z	46.425	1.5
63	MP2C	Mx	-.027	1.5
64	MP1A	X	36.172	1.5
65	MP1A	Z	62.651	1.5
66	MP1A	Mx	.018	1.5
67	MP1B	X	36.172	1.5
68	MP1B	Z	62.651	1.5
69	MP1B	Mx	.018	1.5
70	MP1C	X	24.391	1.5
71	MP1C	Z	42.247	1.5
72	MP1C	Mx	-.024	1.5

Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP1A	X	57.945	1
74	MP1A	Z	100.364	1
75	MP1A	Mx	-.029	1
76	MP1A	X	57.945	5
77	MP1A	Z	100.364	5
78	MP1A	Mx	-.029	5
79	MP1B	X	57.945	1
80	MP1B	Z	100.364	1
81	MP1B	Mx	-.029	1
82	MP1B	X	57.945	5
83	MP1B	Z	100.364	5
84	MP1B	Mx	-.029	5
85	MP1C	X	92.509	1
86	MP1C	Z	160.23	1
87	MP1C	Mx	.093	1
88	MP1C	X	92.509	5
89	MP1C	Z	160.23	5
90	MP1C	Mx	.093	5
91	MP4A	X	57.945	1
92	MP4A	Z	100.364	1
93	MP4A	Mx	-.029	1
94	MP4A	X	57.945	5
95	MP4A	Z	100.364	5
96	MP4A	Mx	-.029	5
97	MP4B	X	57.945	1
98	MP4B	Z	100.364	1
99	MP4B	Mx	-.029	1
100	MP4B	X	57.945	5
101	MP4B	Z	100.364	5
102	MP4B	Mx	-.029	5
103	MP4C	X	92.509	1
104	MP4C	Z	160.23	1
105	MP4C	Mx	.093	1
106	MP4C	X	92.509	5
107	MP4C	Z	160.23	5
108	MP4C	Mx	.093	5

Member Point Loads (BLC 9 : Antenna Wo (180 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	2.38
2	MP3A	Z	100.782	2.38
3	MP3A	Mx	0	2.38
4	MP3A	X	0	3.63
5	MP3A	Z	100.782	3.63
6	MP3A	Mx	0	3.63
7	MP3B	X	0	2.38
8	MP3B	Z	54.787	2.38
9	MP3B	Mx	-.024	2.38
10	MP3B	X	0	3.63
11	MP3B	Z	54.787	3.63
12	MP3B	Mx	-.024	3.63
13	MP3C	X	0	2.38
14	MP3C	Z	54.787	2.38
15	MP3C	Mx	.024	2.38
16	MP3C	X	0	3.63
17	MP3C	Z	54.787	3.63

Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP3C	Mx	.024	3.63
19	MP2A	X	0	1
20	MP2A	Z	211.642	1
21	MP2A	Mx	.141	1
22	MP2A	X	0	5
23	MP2A	Z	211.642	5
24	MP2A	Mx	.141	5
25	MP2B	X	0	1
26	MP2B	Z	170.921	1
27	MP2B	Mx	-.131	1
28	MP2B	X	0	5
29	MP2B	Z	170.921	5
30	MP2B	Mx	-.131	5
31	MP2C	X	0	1
32	MP2C	Z	170.921	1
33	MP2C	Mx	.017	1
34	MP2C	X	0	5
35	MP2C	Z	170.921	5
36	MP2C	Mx	.017	5
37	MP2A	X	0	1
38	MP2A	Z	211.642	1
39	MP2A	Mx	-.141	1
40	MP2A	X	0	5
41	MP2A	Z	211.642	5
42	MP2A	Mx	-.141	5
43	MP2B	X	0	1
44	MP2B	Z	170.921	1
45	MP2B	Mx	-.017	1
46	MP2B	X	0	5
47	MP2B	Z	170.921	5
48	MP2B	Mx	-.017	5
49	MP2C	X	0	1
50	MP2C	Z	170.921	1
51	MP2C	Mx	.131	1
52	MP2C	X	0	5
53	MP2C	Z	170.921	5
54	MP2C	Mx	.131	5
55	MP2A	X	0	1.5
56	MP2A	Z	80.197	1.5
57	MP2A	Mx	0	1.5
58	MP2B	X	0	1.5
59	MP2B	Z	60.255	1.5
60	MP2B	Mx	.026	1.5
61	MP2C	X	0	1.5
62	MP2C	Z	60.255	1.5
63	MP2C	Mx	-.026	1.5
64	MP1A	X	0	1.5
65	MP1A	Z	80.197	1.5
66	MP1A	Mx	0	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	56.636	1.5
69	MP1B	Mx	.025	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	56.636	1.5
72	MP1C	Mx	-.025	1.5
73	MP1A	X	0	1
74	MP1A	Z	92.848	1

Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP1A	Mx	0	1
76	MP1A	X	0	5
77	MP1A	Z	92.848	5
78	MP1A	Mx	0	5
79	MP1B	X	0	1
80	MP1B	Z	161.975	1
81	MP1B	Mx	-.07	1
82	MP1B	X	0	5
83	MP1B	Z	161.975	5
84	MP1B	Mx	-.07	5
85	MP1C	X	0	1
86	MP1C	Z	161.975	1
87	MP1C	Mx	.07	1
88	MP1C	X	0	5
89	MP1C	Z	161.975	5
90	MP1C	Mx	.07	5
91	MP4A	X	0	1
92	MP4A	Z	92.848	1
93	MP4A	Mx	0	1
94	MP4A	X	0	5
95	MP4A	Z	92.848	5
96	MP4A	Mx	0	5
97	MP4B	X	0	1
98	MP4B	Z	161.975	1
99	MP4B	Mx	-.07	1
100	MP4B	X	0	5
101	MP4B	Z	161.975	5
102	MP4B	Mx	-.07	5
103	MP4C	X	0	1
104	MP4C	Z	161.975	1
105	MP4C	Mx	.07	1
106	MP4C	X	0	5
107	MP4C	Z	161.975	5
108	MP4C	Mx	.07	5

Member Point Loads (BLC 10 : Antenna Wo (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-42.725	2.38
2	MP3A	Z	74.002	2.38
3	MP3A	Mx	.021	2.38
4	MP3A	X	-42.725	3.63
5	MP3A	Z	74.002	3.63
6	MP3A	Mx	.021	3.63
7	MP3B	X	-19.728	2.38
8	MP3B	Z	34.17	2.38
9	MP3B	Mx	-.02	2.38
10	MP3B	X	-19.728	3.63
11	MP3B	Z	34.17	3.63
12	MP3B	Mx	-.02	3.63
13	MP3C	X	-42.725	2.38
14	MP3C	Z	74.002	2.38
15	MP3C	Mx	.021	2.38
16	MP3C	X	-42.725	3.63
17	MP3C	Z	74.002	3.63
18	MP3C	Mx	.021	3.63
19	MP2A	X	-99.034	1

Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP2A	Z	171.532	1
21	MP2A	Mx	.164	1
22	MP2A	X	-99.034	5
23	MP2A	Z	171.532	5
24	MP2A	Mx	.164	5
25	MP2B	X	-78.674	1
26	MP2B	Z	136.267	1
27	MP2B	Mx	-.079	1
28	MP2B	X	-78.674	5
29	MP2B	Z	136.267	5
30	MP2B	Mx	-.079	5
31	MP2C	X	-99.034	1
32	MP2C	Z	171.532	1
33	MP2C	Mx	-.065	1
34	MP2C	X	-99.034	5
35	MP2C	Z	171.532	5
36	MP2C	Mx	-.065	5
37	MP2A	X	-99.034	1
38	MP2A	Z	171.532	1
39	MP2A	Mx	-.065	1
40	MP2A	X	-99.034	5
41	MP2A	Z	171.532	5
42	MP2A	Mx	-.065	5
43	MP2B	X	-78.674	1
44	MP2B	Z	136.267	1
45	MP2B	Mx	-.079	1
46	MP2B	X	-78.674	5
47	MP2B	Z	136.267	5
48	MP2B	Mx	-.079	5
49	MP2C	X	-99.034	1
50	MP2C	Z	171.532	1
51	MP2C	Mx	.164	1
52	MP2C	X	-99.034	5
53	MP2C	Z	171.532	5
54	MP2C	Mx	.164	5
55	MP2A	X	-36.775	1.5
56	MP2A	Z	63.695	1.5
57	MP2A	Mx	-.018	1.5
58	MP2B	X	-26.804	1.5
59	MP2B	Z	46.425	1.5
60	MP2B	Mx	.027	1.5
61	MP2C	X	-36.775	1.5
62	MP2C	Z	63.695	1.5
63	MP2C	Mx	-.018	1.5
64	MP1A	X	-36.172	1.5
65	MP1A	Z	62.651	1.5
66	MP1A	Mx	-.018	1.5
67	MP1B	X	-24.391	1.5
68	MP1B	Z	42.247	1.5
69	MP1B	Mx	.024	1.5
70	MP1C	X	-36.172	1.5
71	MP1C	Z	62.651	1.5
72	MP1C	Mx	-.018	1.5
73	MP1A	X	-57.945	1
74	MP1A	Z	100.364	1
75	MP1A	Mx	.029	1
76	MP1A	X	-57.945	5

Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
77	MP1A	Z	100.364	5
78	MP1A	Mx	.029	5
79	MP1B	X	-92.509	1
80	MP1B	Z	160.23	1
81	MP1B	Mx	-.093	1
82	MP1B	X	-92.509	5
83	MP1B	Z	160.23	5
84	MP1B	Mx	-.093	5
85	MP1C	X	-57.945	1
86	MP1C	Z	100.364	1
87	MP1C	Mx	.029	1
88	MP1C	X	-57.945	5
89	MP1C	Z	100.364	5
90	MP1C	Mx	.029	5
91	MP4A	X	-57.945	1
92	MP4A	Z	100.364	1
93	MP4A	Mx	.029	1
94	MP4A	X	-57.945	5
95	MP4A	Z	100.364	5
96	MP4A	Mx	.029	5
97	MP4B	X	-92.509	1
98	MP4B	Z	160.23	1
99	MP4B	Mx	-.093	1
100	MP4B	X	-92.509	5
101	MP4B	Z	160.23	5
102	MP4B	Mx	-.093	5
103	MP4C	X	-57.945	1
104	MP4C	Z	100.364	1
105	MP4C	Mx	.029	1
106	MP4C	X	-57.945	5
107	MP4C	Z	100.364	5
108	MP4C	Mx	.029	5

Member Point Loads (BLC 11 : Antenna Wo (240 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-47.447	2.38
2	MP3A	Z	27.394	2.38
3	MP3A	Mx	.024	2.38
4	MP3A	X	-47.447	3.63
5	MP3A	Z	27.394	3.63
6	MP3A	Mx	.024	3.63
7	MP3B	X	-47.447	2.38
8	MP3B	Z	27.394	2.38
9	MP3B	Mx	-.024	2.38
10	MP3B	X	-47.447	3.63
11	MP3B	Z	27.394	3.63
12	MP3B	Mx	-.024	3.63
13	MP3C	X	-87.28	2.38
14	MP3C	Z	50.391	2.38
15	MP3C	Mx	0	2.38
16	MP3C	X	-87.28	3.63
17	MP3C	Z	50.391	3.63
18	MP3C	Mx	0	3.63
19	MP2A	X	-148.022	1
20	MP2A	Z	85.46	1
21	MP2A	Mx	.131	1

Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP2A	X	-148.022	5
23	MP2A	Z	85.46	5
24	MP2A	Mx	.131	5
25	MP2B	X	-148.022	1
26	MP2B	Z	85.46	1
27	MP2B	Mx	-.017	1
28	MP2B	X	-148.022	5
29	MP2B	Z	85.46	5
30	MP2B	Mx	-.017	5
31	MP2C	X	-183.287	1
32	MP2C	Z	105.821	1
33	MP2C	Mx	-.141	1
34	MP2C	X	-183.287	5
35	MP2C	Z	105.821	5
36	MP2C	Mx	-.141	5
37	MP2A	X	-148.022	1
38	MP2A	Z	85.46	1
39	MP2A	Mx	.017	1
40	MP2A	X	-148.022	5
41	MP2A	Z	85.46	5
42	MP2A	Mx	.017	5
43	MP2B	X	-148.022	1
44	MP2B	Z	85.46	1
45	MP2B	Mx	-.131	1
46	MP2B	X	-148.022	5
47	MP2B	Z	85.46	5
48	MP2B	Mx	-.131	5
49	MP2C	X	-183.287	1
50	MP2C	Z	105.821	1
51	MP2C	Mx	.141	1
52	MP2C	X	-183.287	5
53	MP2C	Z	105.821	5
54	MP2C	Mx	.141	5
55	MP2A	X	-52.182	1.5
56	MP2A	Z	30.127	1.5
57	MP2A	Mx	-.026	1.5
58	MP2B	X	-52.182	1.5
59	MP2B	Z	30.127	1.5
60	MP2B	Mx	.026	1.5
61	MP2C	X	-69.452	1.5
62	MP2C	Z	40.098	1.5
63	MP2C	Mx	0	1.5
64	MP1A	X	-49.048	1.5
65	MP1A	Z	28.318	1.5
66	MP1A	Mx	-.025	1.5
67	MP1B	X	-49.048	1.5
68	MP1B	Z	28.318	1.5
69	MP1B	Mx	.025	1.5
70	MP1C	X	-69.452	1.5
71	MP1C	Z	40.098	1.5
72	MP1C	Mx	0	1.5
73	MP1A	X	-140.274	1
74	MP1A	Z	80.987	1
75	MP1A	Mx	.07	1
76	MP1A	X	-140.274	5
77	MP1A	Z	80.987	5
78	MP1A	Mx	.07	5

Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP1B	X	-140.274	1
80	MP1B	Z	80.987	1
81	MP1B	Mx	-.07	1
82	MP1B	X	-140.274	5
83	MP1B	Z	80.987	5
84	MP1B	Mx	-.07	5
85	MP1C	X	-80.409	1
86	MP1C	Z	46.424	1
87	MP1C	Mx	0	1
88	MP1C	X	-80.409	5
89	MP1C	Z	46.424	5
90	MP1C	Mx	0	5
91	MP4A	X	-140.274	1
92	MP4A	Z	80.987	1
93	MP4A	Mx	.07	1
94	MP4A	X	-140.274	5
95	MP4A	Z	80.987	5
96	MP4A	Mx	.07	5
97	MP4B	X	-140.274	1
98	MP4B	Z	80.987	1
99	MP4B	Mx	-.07	1
100	MP4B	X	-140.274	5
101	MP4B	Z	80.987	5
102	MP4B	Mx	-.07	5
103	MP4C	X	-80.409	1
104	MP4C	Z	46.424	1
105	MP4C	Mx	0	1
106	MP4C	X	-80.409	5
107	MP4C	Z	46.424	5
108	MP4C	Mx	0	5

Member Point Loads (BLC 12 : Antenna Wo (270 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-39.456	2.38
2	MP3A	Z	0	2.38
3	MP3A	Mx	.02	2.38
4	MP3A	X	-39.456	3.63
5	MP3A	Z	0	3.63
6	MP3A	Mx	.02	3.63
7	MP3B	X	-85.45	2.38
8	MP3B	Z	0	2.38
9	MP3B	Mx	-.021	2.38
10	MP3B	X	-85.45	3.63
11	MP3B	Z	0	3.63
12	MP3B	Mx	-.021	3.63
13	MP3C	X	-85.45	2.38
14	MP3C	Z	0	2.38
15	MP3C	Mx	-.021	2.38
16	MP3C	X	-85.45	3.63
17	MP3C	Z	0	3.63
18	MP3C	Mx	-.021	3.63
19	MP2A	X	-157.347	1
20	MP2A	Z	0	1
21	MP2A	Mx	.079	1
22	MP2A	X	-157.347	5
23	MP2A	Z	0	5

Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP2A	Mx	.079	5
25	MP2B	X	-198.068	1
26	MP2B	Z	0	1
27	MP2B	Mx	.065	1
28	MP2B	X	-198.068	5
29	MP2B	Z	0	5
30	MP2B	Mx	.065	5
31	MP2C	X	-198.068	1
32	MP2C	Z	0	1
33	MP2C	Mx	-.164	1
34	MP2C	X	-198.068	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.164	5
37	MP2A	X	-157.347	1
38	MP2A	Z	0	1
39	MP2A	Mx	.079	1
40	MP2A	X	-157.347	5
41	MP2A	Z	0	5
42	MP2A	Mx	.079	5
43	MP2B	X	-198.068	1
44	MP2B	Z	0	1
45	MP2B	Mx	-.164	1
46	MP2B	X	-198.068	5
47	MP2B	Z	0	5
48	MP2B	Mx	-.164	5
49	MP2C	X	-198.068	1
50	MP2C	Z	0	1
51	MP2C	Mx	.065	1
52	MP2C	X	-198.068	5
53	MP2C	Z	0	5
54	MP2C	Mx	.065	5
55	MP2A	X	-53.607	1.5
56	MP2A	Z	0	1.5
57	MP2A	Mx	-.027	1.5
58	MP2B	X	-73.549	1.5
59	MP2B	Z	0	1.5
60	MP2B	Mx	.018	1.5
61	MP2C	X	-73.549	1.5
62	MP2C	Z	0	1.5
63	MP2C	Mx	.018	1.5
64	MP1A	X	-48.783	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	-.024	1.5
67	MP1B	X	-72.343	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	.018	1.5
70	MP1C	X	-72.343	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	.018	1.5
73	MP1A	X	-185.017	1
74	MP1A	Z	0	1
75	MP1A	Mx	.093	1
76	MP1A	X	-185.017	5
77	MP1A	Z	0	5
78	MP1A	Mx	.093	5
79	MP1B	X	-115.89	1
80	MP1B	Z	0	1

Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP1B	Mx	-.029	1
82	MP1B	X	-115.89	5
83	MP1B	Z	0	5
84	MP1B	Mx	-.029	5
85	MP1C	X	-115.89	1
86	MP1C	Z	0	1
87	MP1C	Mx	-.029	1
88	MP1C	X	-115.89	5
89	MP1C	Z	0	5
90	MP1C	Mx	-.029	5
91	MP4A	X	-185.017	1
92	MP4A	Z	0	1
93	MP4A	Mx	.093	1
94	MP4A	X	-185.017	5
95	MP4A	Z	0	5
96	MP4A	Mx	.093	5
97	MP4B	X	-115.89	1
98	MP4B	Z	0	1
99	MP4B	Mx	-.029	1
100	MP4B	X	-115.89	5
101	MP4B	Z	0	5
102	MP4B	Mx	-.029	5
103	MP4C	X	-115.89	1
104	MP4C	Z	0	1
105	MP4C	Mx	-.029	1
106	MP4C	X	-115.89	5
107	MP4C	Z	0	5
108	MP4C	Mx	-.029	5

Member Point Loads (BLC 13 : Antenna Wo (300 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-47.447	2.38
2	MP3A	Z	-27.394	2.38
3	MP3A	Mx	.024	2.38
4	MP3A	X	-47.447	3.63
5	MP3A	Z	-27.394	3.63
6	MP3A	Mx	.024	3.63
7	MP3B	X	-87.28	2.38
8	MP3B	Z	-50.391	2.38
9	MP3B	Mx	0	2.38
10	MP3B	X	-87.28	3.63
11	MP3B	Z	-50.391	3.63
12	MP3B	Mx	0	3.63
13	MP3C	X	-47.447	2.38
14	MP3C	Z	-27.394	2.38
15	MP3C	Mx	-.024	2.38
16	MP3C	X	-47.447	3.63
17	MP3C	Z	-27.394	3.63
18	MP3C	Mx	-.024	3.63
19	MP2A	X	-148.022	1
20	MP2A	Z	-85.46	1
21	MP2A	Mx	.017	1
22	MP2A	X	-148.022	5
23	MP2A	Z	-85.46	5
24	MP2A	Mx	.017	5
25	MP2B	X	-183.287	1

Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2B	Z	-105.821	1
27	MP2B	Mx	.141	1
28	MP2B	X	-183.287	5
29	MP2B	Z	-105.821	5
30	MP2B	Mx	.141	5
31	MP2C	X	-148.022	1
32	MP2C	Z	-85.46	1
33	MP2C	Mx	-.131	1
34	MP2C	X	-148.022	5
35	MP2C	Z	-85.46	5
36	MP2C	Mx	-.131	5
37	MP2A	X	-148.022	1
38	MP2A	Z	-85.46	1
39	MP2A	Mx	.131	1
40	MP2A	X	-148.022	5
41	MP2A	Z	-85.46	5
42	MP2A	Mx	.131	5
43	MP2B	X	-183.287	1
44	MP2B	Z	-105.821	1
45	MP2B	Mx	-.141	1
46	MP2B	X	-183.287	5
47	MP2B	Z	-105.821	5
48	MP2B	Mx	-.141	5
49	MP2C	X	-148.022	1
50	MP2C	Z	-85.46	1
51	MP2C	Mx	-.017	1
52	MP2C	X	-148.022	5
53	MP2C	Z	-85.46	5
54	MP2C	Mx	-.017	5
55	MP2A	X	-52.182	1.5
56	MP2A	Z	-30.127	1.5
57	MP2A	Mx	-.026	1.5
58	MP2B	X	-69.452	1.5
59	MP2B	Z	-40.098	1.5
60	MP2B	Mx	0	1.5
61	MP2C	X	-52.182	1.5
62	MP2C	Z	-30.127	1.5
63	MP2C	Mx	.026	1.5
64	MP1A	X	-49.048	1.5
65	MP1A	Z	-28.318	1.5
66	MP1A	Mx	-.025	1.5
67	MP1B	X	-69.452	1.5
68	MP1B	Z	-40.098	1.5
69	MP1B	Mx	0	1.5
70	MP1C	X	-49.048	1.5
71	MP1C	Z	-28.318	1.5
72	MP1C	Mx	.025	1.5
73	MP1A	X	-140.274	1
74	MP1A	Z	-80.987	1
75	MP1A	Mx	.07	1
76	MP1A	X	-140.274	5
77	MP1A	Z	-80.987	5
78	MP1A	Mx	.07	5
79	MP1B	X	-80.409	1
80	MP1B	Z	-46.424	1
81	MP1B	Mx	0	1
82	MP1B	X	-80.409	5

Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP1B	Z	-46.424	5
84	MP1B	Mx	0	5
85	MP1C	X	-140.274	1
86	MP1C	Z	-80.987	1
87	MP1C	Mx	-.07	1
88	MP1C	X	-140.274	5
89	MP1C	Z	-80.987	5
90	MP1C	Mx	-.07	5
91	MP4A	X	-140.274	1
92	MP4A	Z	-80.987	1
93	MP4A	Mx	.07	1
94	MP4A	X	-140.274	5
95	MP4A	Z	-80.987	5
96	MP4A	Mx	.07	5
97	MP4B	X	-80.409	1
98	MP4B	Z	-46.424	1
99	MP4B	Mx	0	1
100	MP4B	X	-80.409	5
101	MP4B	Z	-46.424	5
102	MP4B	Mx	0	5
103	MP4C	X	-140.274	1
104	MP4C	Z	-80.987	1
105	MP4C	Mx	-.07	1
106	MP4C	X	-140.274	5
107	MP4C	Z	-80.987	5
108	MP4C	Mx	-.07	5

Member Point Loads (BLC 14 : Antenna Wo (330 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-42.725	2.38
2	MP3A	Z	-74.002	2.38
3	MP3A	Mx	.021	2.38
4	MP3A	X	-42.725	3.63
5	MP3A	Z	-74.002	3.63
6	MP3A	Mx	.021	3.63
7	MP3B	X	-42.725	2.38
8	MP3B	Z	-74.002	2.38
9	MP3B	Mx	.021	2.38
10	MP3B	X	-42.725	3.63
11	MP3B	Z	-74.002	3.63
12	MP3B	Mx	.021	3.63
13	MP3C	X	-19.728	2.38
14	MP3C	Z	-34.17	2.38
15	MP3C	Mx	-.02	2.38
16	MP3C	X	-19.728	3.63
17	MP3C	Z	-34.17	3.63
18	MP3C	Mx	-.02	3.63
19	MP2A	X	-99.034	1
20	MP2A	Z	-171.532	1
21	MP2A	Mx	-.065	1
22	MP2A	X	-99.034	5
23	MP2A	Z	-171.532	5
24	MP2A	Mx	-.065	5
25	MP2B	X	-99.034	1
26	MP2B	Z	-171.532	1
27	MP2B	Mx	.164	1

Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP2B	X	-99.034	5
29	MP2B	Z	-171.532	5
30	MP2B	Mx	.164	5
31	MP2C	X	-78.674	1
32	MP2C	Z	-136.267	1
33	MP2C	Mx	-.079	1
34	MP2C	X	-78.674	5
35	MP2C	Z	-136.267	5
36	MP2C	Mx	-.079	5
37	MP2A	X	-99.034	1
38	MP2A	Z	-171.532	1
39	MP2A	Mx	.164	1
40	MP2A	X	-99.034	5
41	MP2A	Z	-171.532	5
42	MP2A	Mx	.164	5
43	MP2B	X	-99.034	1
44	MP2B	Z	-171.532	1
45	MP2B	Mx	-.065	1
46	MP2B	X	-99.034	5
47	MP2B	Z	-171.532	5
48	MP2B	Mx	-.065	5
49	MP2C	X	-78.674	1
50	MP2C	Z	-136.267	1
51	MP2C	Mx	-.079	1
52	MP2C	X	-78.674	5
53	MP2C	Z	-136.267	5
54	MP2C	Mx	-.079	5
55	MP2A	X	-36.775	1.5
56	MP2A	Z	-63.695	1.5
57	MP2A	Mx	-.018	1.5
58	MP2B	X	-36.775	1.5
59	MP2B	Z	-63.695	1.5
60	MP2B	Mx	-.018	1.5
61	MP2C	X	-26.804	1.5
62	MP2C	Z	-46.425	1.5
63	MP2C	Mx	.027	1.5
64	MP1A	X	-36.172	1.5
65	MP1A	Z	-62.651	1.5
66	MP1A	Mx	-.018	1.5
67	MP1B	X	-36.172	1.5
68	MP1B	Z	-62.651	1.5
69	MP1B	Mx	-.018	1.5
70	MP1C	X	-24.391	1.5
71	MP1C	Z	-42.247	1.5
72	MP1C	Mx	.024	1.5
73	MP1A	X	-57.945	1
74	MP1A	Z	-100.364	1
75	MP1A	Mx	.029	1
76	MP1A	X	-57.945	5
77	MP1A	Z	-100.364	5
78	MP1A	Mx	.029	5
79	MP1B	X	-57.945	1
80	MP1B	Z	-100.364	1
81	MP1B	Mx	.029	1
82	MP1B	X	-57.945	5
83	MP1B	Z	-100.364	5
84	MP1B	Mx	.029	5

Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
85	MP1C	X	-92.509	1
86	MP1C	Z	-160.23	1
87	MP1C	Mx	-.093	1
88	MP1C	X	-92.509	5
89	MP1C	Z	-160.23	5
90	MP1C	Mx	-.093	5
91	MP4A	X	-57.945	1
92	MP4A	Z	-100.364	1
93	MP4A	Mx	.029	1
94	MP4A	X	-57.945	5
95	MP4A	Z	-100.364	5
96	MP4A	Mx	.029	5
97	MP4B	X	-57.945	1
98	MP4B	Z	-100.364	1
99	MP4B	Mx	.029	1
100	MP4B	X	-57.945	5
101	MP4B	Z	-100.364	5
102	MP4B	Mx	.029	5
103	MP4C	X	-92.509	1
104	MP4C	Z	-160.23	1
105	MP4C	Mx	-.093	1
106	MP4C	X	-92.509	5
107	MP4C	Z	-160.23	5
108	MP4C	Mx	-.093	5

Member Point Loads (BLC 15 : Antenna Wi (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	2.38
2	MP3A	Z	-19.104	2.38
3	MP3A	Mx	0	2.38
4	MP3A	X	0	3.63
5	MP3A	Z	-19.104	3.63
6	MP3A	Mx	0	3.63
7	MP3B	X	0	2.38
8	MP3B	Z	-10.875	2.38
9	MP3B	Mx	.005	2.38
10	MP3B	X	0	3.63
11	MP3B	Z	-10.875	3.63
12	MP3B	Mx	.005	3.63
13	MP3C	X	0	2.38
14	MP3C	Z	-10.875	2.38
15	MP3C	Mx	-.005	2.38
16	MP3C	X	0	3.63
17	MP3C	Z	-10.875	3.63
18	MP3C	Mx	-.005	3.63
19	MP2A	X	0	1
20	MP2A	Z	-38.736	1
21	MP2A	Mx	-.026	1
22	MP2A	X	0	5
23	MP2A	Z	-38.736	5
24	MP2A	Mx	-.026	5
25	MP2B	X	0	1
26	MP2B	Z	-31.658	1
27	MP2B	Mx	.024	1
28	MP2B	X	0	5
29	MP2B	Z	-31.658	5

Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	.024	5
31	MP2C	X	0	1
32	MP2C	Z	-31.658	1
33	MP2C	Mx	-.003	1
34	MP2C	X	0	5
35	MP2C	Z	-31.658	5
36	MP2C	Mx	-.003	5
37	MP2A	X	0	1
38	MP2A	Z	-38.736	1
39	MP2A	Mx	.026	1
40	MP2A	X	0	5
41	MP2A	Z	-38.736	5
42	MP2A	Mx	.026	5
43	MP2B	X	0	1
44	MP2B	Z	-31.658	1
45	MP2B	Mx	.003	1
46	MP2B	X	0	5
47	MP2B	Z	-31.658	5
48	MP2B	Mx	.003	5
49	MP2C	X	0	1
50	MP2C	Z	-31.658	1
51	MP2C	Mx	-.024	1
52	MP2C	X	0	5
53	MP2C	Z	-31.658	5
54	MP2C	Mx	-.024	5
55	MP2A	X	0	1.5
56	MP2A	Z	-16.094	1.5
57	MP2A	Mx	0	1.5
58	MP2B	X	0	1.5
59	MP2B	Z	-12.417	1.5
60	MP2B	Mx	-.005	1.5
61	MP2C	X	0	1.5
62	MP2C	Z	-12.417	1.5
63	MP2C	Mx	.005	1.5
64	MP1A	X	0	1.5
65	MP1A	Z	-16.094	1.5
66	MP1A	Mx	0	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	-11.755	1.5
69	MP1B	Mx	-.005	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	-11.755	1.5
72	MP1C	Mx	.005	1.5
73	MP1A	X	0	1
74	MP1A	Z	-18.277	1
75	MP1A	Mx	0	1
76	MP1A	X	0	5
77	MP1A	Z	-18.277	5
78	MP1A	Mx	0	5
79	MP1B	X	0	1
80	MP1B	Z	-30.152	1
81	MP1B	Mx	.013	1
82	MP1B	X	0	5
83	MP1B	Z	-30.152	5
84	MP1B	Mx	.013	5
85	MP1C	X	0	1
86	MP1C	Z	-30.152	1

Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP1C	Mx	-.013	1
88	MP1C	X	0	5
89	MP1C	Z	-30.152	5
90	MP1C	Mx	-.013	5
91	MP4A	X	0	1
92	MP4A	Z	-18.277	1
93	MP4A	Mx	0	1
94	MP4A	X	0	5
95	MP4A	Z	-18.277	5
96	MP4A	Mx	0	5
97	MP4B	X	0	1
98	MP4B	Z	-30.152	1
99	MP4B	Mx	.013	1
100	MP4B	X	0	5
101	MP4B	Z	-30.152	5
102	MP4B	Mx	.013	5
103	MP4C	X	0	1
104	MP4C	Z	-30.152	1
105	MP4C	Mx	-.013	1
106	MP4C	X	0	5
107	MP4C	Z	-30.152	5
108	MP4C	Mx	-.013	5

Member Point Loads (BLC 16 : Antenna Wi (30 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	8.181	2.38
2	MP3A	Z	-14.169	2.38
3	MP3A	Mx	-.004	2.38
4	MP3A	X	8.181	3.63
5	MP3A	Z	-14.169	3.63
6	MP3A	Mx	-.004	3.63
7	MP3B	X	4.066	2.38
8	MP3B	Z	-7.042	2.38
9	MP3B	Mx	.004	2.38
10	MP3B	X	4.066	3.63
11	MP3B	Z	-7.042	3.63
12	MP3B	Mx	.004	3.63
13	MP3C	X	8.181	2.38
14	MP3C	Z	-14.169	2.38
15	MP3C	Mx	-.004	2.38
16	MP3C	X	8.181	3.63
17	MP3C	Z	-14.169	3.63
18	MP3C	Mx	-.004	3.63
19	MP2A	X	18.188	1
20	MP2A	Z	-31.503	1
21	MP2A	Mx	-.03	1
22	MP2A	X	18.188	5
23	MP2A	Z	-31.503	5
24	MP2A	Mx	-.03	5
25	MP2B	X	14.65	1
26	MP2B	Z	-25.374	1
27	MP2B	Mx	.015	1
28	MP2B	X	14.65	5
29	MP2B	Z	-25.374	5
30	MP2B	Mx	.015	5
31	MP2C	X	18.188	1

Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP2C	Z	-31.503	1
33	MP2C	Mx	.012	1
34	MP2C	X	18.188	5
35	MP2C	Z	-31.503	5
36	MP2C	Mx	.012	5
37	MP2A	X	18.188	1
38	MP2A	Z	-31.503	1
39	MP2A	Mx	.012	1
40	MP2A	X	18.188	5
41	MP2A	Z	-31.503	5
42	MP2A	Mx	.012	5
43	MP2B	X	14.65	1
44	MP2B	Z	-25.374	1
45	MP2B	Mx	.015	1
46	MP2B	X	14.65	5
47	MP2B	Z	-25.374	5
48	MP2B	Mx	.015	5
49	MP2C	X	18.188	1
50	MP2C	Z	-31.503	1
51	MP2C	Mx	-.03	1
52	MP2C	X	18.188	5
53	MP2C	Z	-31.503	5
54	MP2C	Mx	-.03	5
55	MP2A	X	7.434	1.5
56	MP2A	Z	-12.876	1.5
57	MP2A	Mx	.004	1.5
58	MP2B	X	5.595	1.5
59	MP2B	Z	-9.692	1.5
60	MP2B	Mx	-.006	1.5
61	MP2C	X	7.434	1.5
62	MP2C	Z	-12.876	1.5
63	MP2C	Mx	.004	1.5
64	MP1A	X	7.324	1.5
65	MP1A	Z	-12.685	1.5
66	MP1A	Mx	.004	1.5
67	MP1B	X	5.154	1.5
68	MP1B	Z	-8.927	1.5
69	MP1B	Mx	-.005	1.5
70	MP1C	X	7.324	1.5
71	MP1C	Z	-12.685	1.5
72	MP1C	Mx	.004	1.5
73	MP1A	X	11.118	1
74	MP1A	Z	-19.256	1
75	MP1A	Mx	-.006	1
76	MP1A	X	11.118	5
77	MP1A	Z	-19.256	5
78	MP1A	Mx	-.006	5
79	MP1B	X	17.055	1
80	MP1B	Z	-29.541	1
81	MP1B	Mx	.017	1
82	MP1B	X	17.055	5
83	MP1B	Z	-29.541	5
84	MP1B	Mx	.017	5
85	MP1C	X	11.118	1
86	MP1C	Z	-19.256	1
87	MP1C	Mx	-.006	1
88	MP1C	X	11.118	5

Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP1C	Z	-19.256	5
90	MP1C	Mx	-.006	5
91	MP4A	X	11.118	1
92	MP4A	Z	-19.256	1
93	MP4A	Mx	-.006	1
94	MP4A	X	11.118	5
95	MP4A	Z	-19.256	5
96	MP4A	Mx	-.006	5
97	MP4B	X	17.055	1
98	MP4B	Z	-29.541	1
99	MP4B	Mx	.017	1
100	MP4B	X	17.055	5
101	MP4B	Z	-29.541	5
102	MP4B	Mx	.017	5
103	MP4C	X	11.118	1
104	MP4C	Z	-19.256	1
105	MP4C	Mx	-.006	1
106	MP4C	X	11.118	5
107	MP4C	Z	-19.256	5
108	MP4C	Mx	-.006	5

Member Point Loads (BLC 17 : Antenna Wi (60 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	9.418	2.38
2	MP3A	Z	-5.437	2.38
3	MP3A	Mx	-.005	2.38
4	MP3A	X	9.418	3.63
5	MP3A	Z	-5.437	3.63
6	MP3A	Mx	-.005	3.63
7	MP3B	X	9.418	2.38
8	MP3B	Z	-5.437	2.38
9	MP3B	Mx	.005	2.38
10	MP3B	X	9.418	3.63
11	MP3B	Z	-5.437	3.63
12	MP3B	Mx	.005	3.63
13	MP3C	X	16.545	2.38
14	MP3C	Z	-9.552	2.38
15	MP3C	Mx	0	2.38
16	MP3C	X	16.545	3.63
17	MP3C	Z	-9.552	3.63
18	MP3C	Mx	0	3.63
19	MP2A	X	27.417	1
20	MP2A	Z	-15.829	1
21	MP2A	Mx	-.024	1
22	MP2A	X	27.417	5
23	MP2A	Z	-15.829	5
24	MP2A	Mx	-.024	5
25	MP2B	X	27.417	1
26	MP2B	Z	-15.829	1
27	MP2B	Mx	.003	1
28	MP2B	X	27.417	5
29	MP2B	Z	-15.829	5
30	MP2B	Mx	.003	5
31	MP2C	X	33.546	1
32	MP2C	Z	-19.368	1
33	MP2C	Mx	.026	1

Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2C	X	33.546	5
35	MP2C	Z	-19.368	5
36	MP2C	Mx	.026	5
37	MP2A	X	27.417	1
38	MP2A	Z	-15.829	1
39	MP2A	Mx	-.003	1
40	MP2A	X	27.417	5
41	MP2A	Z	-15.829	5
42	MP2A	Mx	-.003	5
43	MP2B	X	27.417	1
44	MP2B	Z	-15.829	1
45	MP2B	Mx	.024	1
46	MP2B	X	27.417	5
47	MP2B	Z	-15.829	5
48	MP2B	Mx	.024	5
49	MP2C	X	33.546	1
50	MP2C	Z	-19.368	1
51	MP2C	Mx	-.026	1
52	MP2C	X	33.546	5
53	MP2C	Z	-19.368	5
54	MP2C	Mx	-.026	5
55	MP2A	X	10.753	1.5
56	MP2A	Z	-6.208	1.5
57	MP2A	Mx	.005	1.5
58	MP2B	X	10.753	1.5
59	MP2B	Z	-6.208	1.5
60	MP2B	Mx	-.005	1.5
61	MP2C	X	13.938	1.5
62	MP2C	Z	-8.047	1.5
63	MP2C	Mx	0	1.5
64	MP1A	X	10.18	1.5
65	MP1A	Z	-5.877	1.5
66	MP1A	Mx	.005	1.5
67	MP1B	X	10.18	1.5
68	MP1B	Z	-5.877	1.5
69	MP1B	Mx	-.005	1.5
70	MP1C	X	13.938	1.5
71	MP1C	Z	-8.047	1.5
72	MP1C	Mx	0	1.5
73	MP1A	X	26.113	1
74	MP1A	Z	-15.076	1
75	MP1A	Mx	-.013	1
76	MP1A	X	26.113	5
77	MP1A	Z	-15.076	5
78	MP1A	Mx	-.013	5
79	MP1B	X	26.113	1
80	MP1B	Z	-15.076	1
81	MP1B	Mx	.013	1
82	MP1B	X	26.113	5
83	MP1B	Z	-15.076	5
84	MP1B	Mx	.013	5
85	MP1C	X	15.828	1
86	MP1C	Z	-9.139	1
87	MP1C	Mx	0	1
88	MP1C	X	15.828	5
89	MP1C	Z	-9.139	5
90	MP1C	Mx	0	5

Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP4A	X	26.113	1
92	MP4A	Z	-15.076	1
93	MP4A	Mx	-.013	1
94	MP4A	X	26.113	5
95	MP4A	Z	-15.076	5
96	MP4A	Mx	-.013	5
97	MP4B	X	26.113	1
98	MP4B	Z	-15.076	1
99	MP4B	Mx	.013	1
100	MP4B	X	26.113	5
101	MP4B	Z	-15.076	5
102	MP4B	Mx	.013	5
103	MP4C	X	15.828	1
104	MP4C	Z	-9.139	1
105	MP4C	Mx	0	1
106	MP4C	X	15.828	5
107	MP4C	Z	-9.139	5
108	MP4C	Mx	0	5

Member Point Loads (BLC 18 : Antenna Wi (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	8.132	2.38
2	MP3A	Z	0	2.38
3	MP3A	Mx	-.004	2.38
4	MP3A	X	8.132	3.63
5	MP3A	Z	0	3.63
6	MP3A	Mx	-.004	3.63
7	MP3B	X	16.361	2.38
8	MP3B	Z	0	2.38
9	MP3B	Mx	.004	2.38
10	MP3B	X	16.361	3.63
11	MP3B	Z	0	3.63
12	MP3B	Mx	.004	3.63
13	MP3C	X	16.361	2.38
14	MP3C	Z	0	2.38
15	MP3C	Mx	.004	2.38
16	MP3C	X	16.361	3.63
17	MP3C	Z	0	3.63
18	MP3C	Mx	.004	3.63
19	MP2A	X	29.299	1
20	MP2A	Z	0	1
21	MP2A	Mx	-.015	1
22	MP2A	X	29.299	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.015	5
25	MP2B	X	36.377	1
26	MP2B	Z	0	1
27	MP2B	Mx	-.012	1
28	MP2B	X	36.377	5
29	MP2B	Z	0	5
30	MP2B	Mx	-.012	5
31	MP2C	X	36.377	1
32	MP2C	Z	0	1
33	MP2C	Mx	.03	1
34	MP2C	X	36.377	5
35	MP2C	Z	0	5

Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	.03	5
37	MP2A	X	29.299	1
38	MP2A	Z	0	1
39	MP2A	Mx	-.015	1
40	MP2A	X	29.299	5
41	MP2A	Z	0	5
42	MP2A	Mx	-.015	5
43	MP2B	X	36.377	1
44	MP2B	Z	0	1
45	MP2B	Mx	.03	1
46	MP2B	X	36.377	5
47	MP2B	Z	0	5
48	MP2B	Mx	.03	5
49	MP2C	X	36.377	1
50	MP2C	Z	0	1
51	MP2C	Mx	-.012	1
52	MP2C	X	36.377	5
53	MP2C	Z	0	5
54	MP2C	Mx	-.012	5
55	MP2A	X	11.191	1.5
56	MP2A	Z	0	1.5
57	MP2A	Mx	.006	1.5
58	MP2B	X	14.868	1.5
59	MP2B	Z	0	1.5
60	MP2B	Mx	-.004	1.5
61	MP2C	X	14.868	1.5
62	MP2C	Z	0	1.5
63	MP2C	Mx	-.004	1.5
64	MP1A	X	10.308	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	.005	1.5
67	MP1B	X	14.647	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	-.004	1.5
70	MP1C	X	14.647	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	-.004	1.5
73	MP1A	X	34.111	1
74	MP1A	Z	0	1
75	MP1A	Mx	-.017	1
76	MP1A	X	34.111	5
77	MP1A	Z	0	5
78	MP1A	Mx	-.017	5
79	MP1B	X	22.235	1
80	MP1B	Z	0	1
81	MP1B	Mx	.006	1
82	MP1B	X	22.235	5
83	MP1B	Z	0	5
84	MP1B	Mx	.006	5
85	MP1C	X	22.235	1
86	MP1C	Z	0	1
87	MP1C	Mx	.006	1
88	MP1C	X	22.235	5
89	MP1C	Z	0	5
90	MP1C	Mx	.006	5
91	MP4A	X	34.111	1
92	MP4A	Z	0	1

Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
93	MP4A	Mx	-.017	1
94	MP4A	X	34.111	5
95	MP4A	Z	0	5
96	MP4A	Mx	-.017	5
97	MP4B	X	22.235	1
98	MP4B	Z	0	1
99	MP4B	Mx	.006	1
100	MP4B	X	22.235	5
101	MP4B	Z	0	5
102	MP4B	Mx	.006	5
103	MP4C	X	22.235	1
104	MP4C	Z	0	1
105	MP4C	Mx	.006	1
106	MP4C	X	22.235	5
107	MP4C	Z	0	5
108	MP4C	Mx	.006	5

Member Point Loads (BLC 19 : Antenna Wi (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	9.418	2.38
2	MP3A	Z	5.437	2.38
3	MP3A	Mx	-.005	2.38
4	MP3A	X	9.418	3.63
5	MP3A	Z	5.437	3.63
6	MP3A	Mx	-.005	3.63
7	MP3B	X	16.545	2.38
8	MP3B	Z	9.552	2.38
9	MP3B	Mx	0	2.38
10	MP3B	X	16.545	3.63
11	MP3B	Z	9.552	3.63
12	MP3B	Mx	0	3.63
13	MP3C	X	9.418	2.38
14	MP3C	Z	5.437	2.38
15	MP3C	Mx	.005	2.38
16	MP3C	X	9.418	3.63
17	MP3C	Z	5.437	3.63
18	MP3C	Mx	.005	3.63
19	MP2A	X	27.417	1
20	MP2A	Z	15.829	1
21	MP2A	Mx	-.003	1
22	MP2A	X	27.417	5
23	MP2A	Z	15.829	5
24	MP2A	Mx	-.003	5
25	MP2B	X	33.546	1
26	MP2B	Z	19.368	1
27	MP2B	Mx	-.026	1
28	MP2B	X	33.546	5
29	MP2B	Z	19.368	5
30	MP2B	Mx	-.026	5
31	MP2C	X	27.417	1
32	MP2C	Z	15.829	1
33	MP2C	Mx	.024	1
34	MP2C	X	27.417	5
35	MP2C	Z	15.829	5
36	MP2C	Mx	.024	5
37	MP2A	X	27.417	1

Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP2A	Z	15.829	1
39	MP2A	Mx	-.024	1
40	MP2A	X	27.417	5
41	MP2A	Z	15.829	5
42	MP2A	Mx	-.024	5
43	MP2B	X	33.546	1
44	MP2B	Z	19.368	1
45	MP2B	Mx	.026	1
46	MP2B	X	33.546	5
47	MP2B	Z	19.368	5
48	MP2B	Mx	.026	5
49	MP2C	X	27.417	1
50	MP2C	Z	15.829	1
51	MP2C	Mx	.003	1
52	MP2C	X	27.417	5
53	MP2C	Z	15.829	5
54	MP2C	Mx	.003	5
55	MP2A	X	10.753	1.5
56	MP2A	Z	6.208	1.5
57	MP2A	Mx	.005	1.5
58	MP2B	X	13.938	1.5
59	MP2B	Z	8.047	1.5
60	MP2B	Mx	0	1.5
61	MP2C	X	10.753	1.5
62	MP2C	Z	6.208	1.5
63	MP2C	Mx	-.005	1.5
64	MP1A	X	10.18	1.5
65	MP1A	Z	5.877	1.5
66	MP1A	Mx	.005	1.5
67	MP1B	X	13.938	1.5
68	MP1B	Z	8.047	1.5
69	MP1B	Mx	0	1.5
70	MP1C	X	10.18	1.5
71	MP1C	Z	5.877	1.5
72	MP1C	Mx	-.005	1.5
73	MP1A	X	26.113	1
74	MP1A	Z	15.076	1
75	MP1A	Mx	-.013	1
76	MP1A	X	26.113	5
77	MP1A	Z	15.076	5
78	MP1A	Mx	-.013	5
79	MP1B	X	15.828	1
80	MP1B	Z	9.139	1
81	MP1B	Mx	0	1
82	MP1B	X	15.828	5
83	MP1B	Z	9.139	5
84	MP1B	Mx	0	5
85	MP1C	X	26.113	1
86	MP1C	Z	15.076	1
87	MP1C	Mx	.013	1
88	MP1C	X	26.113	5
89	MP1C	Z	15.076	5
90	MP1C	Mx	.013	5
91	MP4A	X	26.113	1
92	MP4A	Z	15.076	1
93	MP4A	Mx	-.013	1
94	MP4A	X	26.113	5

Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
95	MP4A	Z	15.076	5
96	MP4A	Mx	-.013	5
97	MP4B	X	15.828	1
98	MP4B	Z	9.139	1
99	MP4B	Mx	0	1
100	MP4B	X	15.828	5
101	MP4B	Z	9.139	5
102	MP4B	Mx	0	5
103	MP4C	X	26.113	1
104	MP4C	Z	15.076	1
105	MP4C	Mx	.013	1
106	MP4C	X	26.113	5
107	MP4C	Z	15.076	5
108	MP4C	Mx	.013	5

Member Point Loads (BLC 20 : Antenna Wi (150 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	8.181	2.38
2	MP3A	Z	14.169	2.38
3	MP3A	Mx	-.004	2.38
4	MP3A	X	8.181	3.63
5	MP3A	Z	14.169	3.63
6	MP3A	Mx	-.004	3.63
7	MP3B	X	8.181	2.38
8	MP3B	Z	14.169	2.38
9	MP3B	Mx	-.004	2.38
10	MP3B	X	8.181	3.63
11	MP3B	Z	14.169	3.63
12	MP3B	Mx	-.004	3.63
13	MP3C	X	4.066	2.38
14	MP3C	Z	7.042	2.38
15	MP3C	Mx	.004	2.38
16	MP3C	X	4.066	3.63
17	MP3C	Z	7.042	3.63
18	MP3C	Mx	.004	3.63
19	MP2A	X	18.188	1
20	MP2A	Z	31.503	1
21	MP2A	Mx	.012	1
22	MP2A	X	18.188	5
23	MP2A	Z	31.503	5
24	MP2A	Mx	.012	5
25	MP2B	X	18.188	1
26	MP2B	Z	31.503	1
27	MP2B	Mx	-.03	1
28	MP2B	X	18.188	5
29	MP2B	Z	31.503	5
30	MP2B	Mx	-.03	5
31	MP2C	X	14.65	1
32	MP2C	Z	25.374	1
33	MP2C	Mx	.015	1
34	MP2C	X	14.65	5
35	MP2C	Z	25.374	5
36	MP2C	Mx	.015	5
37	MP2A	X	18.188	1
38	MP2A	Z	31.503	1
39	MP2A	Mx	-.03	1

Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP2A	X	18.188	5
41	MP2A	Z	31.503	5
42	MP2A	Mx	-.03	5
43	MP2B	X	18.188	1
44	MP2B	Z	31.503	1
45	MP2B	Mx	.012	1
46	MP2B	X	18.188	5
47	MP2B	Z	31.503	5
48	MP2B	Mx	.012	5
49	MP2C	X	14.65	1
50	MP2C	Z	25.374	1
51	MP2C	Mx	.015	1
52	MP2C	X	14.65	5
53	MP2C	Z	25.374	5
54	MP2C	Mx	.015	5
55	MP2A	X	7.434	1.5
56	MP2A	Z	12.876	1.5
57	MP2A	Mx	.004	1.5
58	MP2B	X	7.434	1.5
59	MP2B	Z	12.876	1.5
60	MP2B	Mx	.004	1.5
61	MP2C	X	5.595	1.5
62	MP2C	Z	9.692	1.5
63	MP2C	Mx	-.006	1.5
64	MP1A	X	7.324	1.5
65	MP1A	Z	12.685	1.5
66	MP1A	Mx	.004	1.5
67	MP1B	X	7.324	1.5
68	MP1B	Z	12.685	1.5
69	MP1B	Mx	.004	1.5
70	MP1C	X	5.154	1.5
71	MP1C	Z	8.927	1.5
72	MP1C	Mx	-.005	1.5
73	MP1A	X	11.118	1
74	MP1A	Z	19.256	1
75	MP1A	Mx	-.006	1
76	MP1A	X	11.118	5
77	MP1A	Z	19.256	5
78	MP1A	Mx	-.006	5
79	MP1B	X	11.118	1
80	MP1B	Z	19.256	1
81	MP1B	Mx	-.006	1
82	MP1B	X	11.118	5
83	MP1B	Z	19.256	5
84	MP1B	Mx	-.006	5
85	MP1C	X	17.055	1
86	MP1C	Z	29.541	1
87	MP1C	Mx	.017	1
88	MP1C	X	17.055	5
89	MP1C	Z	29.541	5
90	MP1C	Mx	.017	5
91	MP4A	X	11.118	1
92	MP4A	Z	19.256	1
93	MP4A	Mx	-.006	1
94	MP4A	X	11.118	5
95	MP4A	Z	19.256	5
96	MP4A	Mx	-.006	5

Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
97	MP4B	X	11.118	1
98	MP4B	Z	19.256	1
99	MP4B	Mx	-.006	1
100	MP4B	X	11.118	5
101	MP4B	Z	19.256	5
102	MP4B	Mx	-.006	5
103	MP4C	X	17.055	1
104	MP4C	Z	29.541	1
105	MP4C	Mx	.017	1
106	MP4C	X	17.055	5
107	MP4C	Z	29.541	5
108	MP4C	Mx	.017	5

Member Point Loads (BLC 21 : Antenna Wi (180 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	2.38
2	MP3A	Z	19.104	2.38
3	MP3A	Mx	0	2.38
4	MP3A	X	0	3.63
5	MP3A	Z	19.104	3.63
6	MP3A	Mx	0	3.63
7	MP3B	X	0	2.38
8	MP3B	Z	10.875	2.38
9	MP3B	Mx	-.005	2.38
10	MP3B	X	0	3.63
11	MP3B	Z	10.875	3.63
12	MP3B	Mx	-.005	3.63
13	MP3C	X	0	2.38
14	MP3C	Z	10.875	2.38
15	MP3C	Mx	.005	2.38
16	MP3C	X	0	3.63
17	MP3C	Z	10.875	3.63
18	MP3C	Mx	.005	3.63
19	MP2A	X	0	1
20	MP2A	Z	38.736	1
21	MP2A	Mx	.026	1
22	MP2A	X	0	5
23	MP2A	Z	38.736	5
24	MP2A	Mx	.026	5
25	MP2B	X	0	1
26	MP2B	Z	31.658	1
27	MP2B	Mx	-.024	1
28	MP2B	X	0	5
29	MP2B	Z	31.658	5
30	MP2B	Mx	-.024	5
31	MP2C	X	0	1
32	MP2C	Z	31.658	1
33	MP2C	Mx	.003	1
34	MP2C	X	0	5
35	MP2C	Z	31.658	5
36	MP2C	Mx	.003	5
37	MP2A	X	0	1
38	MP2A	Z	38.736	1
39	MP2A	Mx	-.026	1
40	MP2A	X	0	5
41	MP2A	Z	38.736	5

Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP2A	Mx	-.026	5
43	MP2B	X	0	1
44	MP2B	Z	31.658	1
45	MP2B	Mx	-.003	1
46	MP2B	X	0	5
47	MP2B	Z	31.658	5
48	MP2B	Mx	-.003	5
49	MP2C	X	0	1
50	MP2C	Z	31.658	1
51	MP2C	Mx	.024	1
52	MP2C	X	0	5
53	MP2C	Z	31.658	5
54	MP2C	Mx	.024	5
55	MP2A	X	0	1.5
56	MP2A	Z	16.094	1.5
57	MP2A	Mx	0	1.5
58	MP2B	X	0	1.5
59	MP2B	Z	12.417	1.5
60	MP2B	Mx	.005	1.5
61	MP2C	X	0	1.5
62	MP2C	Z	12.417	1.5
63	MP2C	Mx	-.005	1.5
64	MP1A	X	0	1.5
65	MP1A	Z	16.094	1.5
66	MP1A	Mx	0	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	11.755	1.5
69	MP1B	Mx	.005	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	11.755	1.5
72	MP1C	Mx	-.005	1.5
73	MP1A	X	0	1
74	MP1A	Z	18.277	1
75	MP1A	Mx	0	1
76	MP1A	X	0	5
77	MP1A	Z	18.277	5
78	MP1A	Mx	0	5
79	MP1B	X	0	1
80	MP1B	Z	30.152	1
81	MP1B	Mx	-.013	1
82	MP1B	X	0	5
83	MP1B	Z	30.152	5
84	MP1B	Mx	-.013	5
85	MP1C	X	0	1
86	MP1C	Z	30.152	1
87	MP1C	Mx	.013	1
88	MP1C	X	0	5
89	MP1C	Z	30.152	5
90	MP1C	Mx	.013	5
91	MP4A	X	0	1
92	MP4A	Z	18.277	1
93	MP4A	Mx	0	1
94	MP4A	X	0	5
95	MP4A	Z	18.277	5
96	MP4A	Mx	0	5
97	MP4B	X	0	1
98	MP4B	Z	30.152	1

Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
99	MP4B	Mx	-.013	1
100	MP4B	X	0	5
101	MP4B	Z	30.152	5
102	MP4B	Mx	-.013	5
103	MP4C	X	0	1
104	MP4C	Z	30.152	1
105	MP4C	Mx	.013	1
106	MP4C	X	0	5
107	MP4C	Z	30.152	5
108	MP4C	Mx	.013	5

Member Point Loads (BLC 22 : Antenna Wi (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-8.181	2.38
2	MP3A	Z	14.169	2.38
3	MP3A	Mx	.004	2.38
4	MP3A	X	-8.181	3.63
5	MP3A	Z	14.169	3.63
6	MP3A	Mx	.004	3.63
7	MP3B	X	-4.066	2.38
8	MP3B	Z	7.042	2.38
9	MP3B	Mx	-.004	2.38
10	MP3B	X	-4.066	3.63
11	MP3B	Z	7.042	3.63
12	MP3B	Mx	-.004	3.63
13	MP3C	X	-8.181	2.38
14	MP3C	Z	14.169	2.38
15	MP3C	Mx	.004	2.38
16	MP3C	X	-8.181	3.63
17	MP3C	Z	14.169	3.63
18	MP3C	Mx	.004	3.63
19	MP2A	X	-18.188	1
20	MP2A	Z	31.503	1
21	MP2A	Mx	.03	1
22	MP2A	X	-18.188	5
23	MP2A	Z	31.503	5
24	MP2A	Mx	.03	5
25	MP2B	X	-14.65	1
26	MP2B	Z	25.374	1
27	MP2B	Mx	-.015	1
28	MP2B	X	-14.65	5
29	MP2B	Z	25.374	5
30	MP2B	Mx	-.015	5
31	MP2C	X	-18.188	1
32	MP2C	Z	31.503	1
33	MP2C	Mx	-.012	1
34	MP2C	X	-18.188	5
35	MP2C	Z	31.503	5
36	MP2C	Mx	-.012	5
37	MP2A	X	-18.188	1
38	MP2A	Z	31.503	1
39	MP2A	Mx	-.012	1
40	MP2A	X	-18.188	5
41	MP2A	Z	31.503	5
42	MP2A	Mx	-.012	5
43	MP2B	X	-14.65	1

Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP2B	Z	25.374	1
45	MP2B	Mx	-.015	1
46	MP2B	X	-14.65	5
47	MP2B	Z	25.374	5
48	MP2B	Mx	-.015	5
49	MP2C	X	-18.188	1
50	MP2C	Z	31.503	1
51	MP2C	Mx	.03	1
52	MP2C	X	-18.188	5
53	MP2C	Z	31.503	5
54	MP2C	Mx	.03	5
55	MP2A	X	-7.434	1.5
56	MP2A	Z	12.876	1.5
57	MP2A	Mx	-.004	1.5
58	MP2B	X	-5.595	1.5
59	MP2B	Z	9.692	1.5
60	MP2B	Mx	.006	1.5
61	MP2C	X	-7.434	1.5
62	MP2C	Z	12.876	1.5
63	MP2C	Mx	-.004	1.5
64	MP1A	X	-7.324	1.5
65	MP1A	Z	12.685	1.5
66	MP1A	Mx	-.004	1.5
67	MP1B	X	-5.154	1.5
68	MP1B	Z	8.927	1.5
69	MP1B	Mx	.005	1.5
70	MP1C	X	-7.324	1.5
71	MP1C	Z	12.685	1.5
72	MP1C	Mx	-.004	1.5
73	MP1A	X	-11.118	1
74	MP1A	Z	19.256	1
75	MP1A	Mx	.006	1
76	MP1A	X	-11.118	5
77	MP1A	Z	19.256	5
78	MP1A	Mx	.006	5
79	MP1B	X	-17.055	1
80	MP1B	Z	29.541	1
81	MP1B	Mx	-.017	1
82	MP1B	X	-17.055	5
83	MP1B	Z	29.541	5
84	MP1B	Mx	-.017	5
85	MP1C	X	-11.118	1
86	MP1C	Z	19.256	1
87	MP1C	Mx	.006	1
88	MP1C	X	-11.118	5
89	MP1C	Z	19.256	5
90	MP1C	Mx	.006	5
91	MP4A	X	-11.118	1
92	MP4A	Z	19.256	1
93	MP4A	Mx	.006	1
94	MP4A	X	-11.118	5
95	MP4A	Z	19.256	5
96	MP4A	Mx	.006	5
97	MP4B	X	-17.055	1
98	MP4B	Z	29.541	1
99	MP4B	Mx	-.017	1
100	MP4B	X	-17.055	5

Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
101	MP4B	Z	29.541	5
102	MP4B	Mx	-.017	5
103	MP4C	X	-11.118	1
104	MP4C	Z	19.256	1
105	MP4C	Mx	.006	1
106	MP4C	X	-11.118	5
107	MP4C	Z	19.256	5
108	MP4C	Mx	.006	5

Member Point Loads (BLC 23 : Antenna Wi (240 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-9.418	2.38
2	MP3A	Z	5.437	2.38
3	MP3A	Mx	.005	2.38
4	MP3A	X	-9.418	3.63
5	MP3A	Z	5.437	3.63
6	MP3A	Mx	.005	3.63
7	MP3B	X	-9.418	2.38
8	MP3B	Z	5.437	2.38
9	MP3B	Mx	-.005	2.38
10	MP3B	X	-9.418	3.63
11	MP3B	Z	5.437	3.63
12	MP3B	Mx	-.005	3.63
13	MP3C	X	-16.545	2.38
14	MP3C	Z	9.552	2.38
15	MP3C	Mx	0	2.38
16	MP3C	X	-16.545	3.63
17	MP3C	Z	9.552	3.63
18	MP3C	Mx	0	3.63
19	MP2A	X	-27.417	1
20	MP2A	Z	15.829	1
21	MP2A	Mx	.024	1
22	MP2A	X	-27.417	5
23	MP2A	Z	15.829	5
24	MP2A	Mx	.024	5
25	MP2B	X	-27.417	1
26	MP2B	Z	15.829	1
27	MP2B	Mx	-.003	1
28	MP2B	X	-27.417	5
29	MP2B	Z	15.829	5
30	MP2B	Mx	-.003	5
31	MP2C	X	-33.546	1
32	MP2C	Z	19.368	1
33	MP2C	Mx	-.026	1
34	MP2C	X	-33.546	5
35	MP2C	Z	19.368	5
36	MP2C	Mx	-.026	5
37	MP2A	X	-27.417	1
38	MP2A	Z	15.829	1
39	MP2A	Mx	.003	1
40	MP2A	X	-27.417	5
41	MP2A	Z	15.829	5
42	MP2A	Mx	.003	5
43	MP2B	X	-27.417	1
44	MP2B	Z	15.829	1
45	MP2B	Mx	-.024	1

Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP2B	X	-27.417	5
47	MP2B	Z	15.829	5
48	MP2B	Mx	-.024	5
49	MP2C	X	-33.546	1
50	MP2C	Z	19.368	1
51	MP2C	Mx	.026	1
52	MP2C	X	-33.546	5
53	MP2C	Z	19.368	5
54	MP2C	Mx	.026	5
55	MP2A	X	-10.753	1.5
56	MP2A	Z	6.208	1.5
57	MP2A	Mx	-.005	1.5
58	MP2B	X	-10.753	1.5
59	MP2B	Z	6.208	1.5
60	MP2B	Mx	.005	1.5
61	MP2C	X	-13.938	1.5
62	MP2C	Z	8.047	1.5
63	MP2C	Mx	0	1.5
64	MP1A	X	-10.18	1.5
65	MP1A	Z	5.877	1.5
66	MP1A	Mx	-.005	1.5
67	MP1B	X	-10.18	1.5
68	MP1B	Z	5.877	1.5
69	MP1B	Mx	.005	1.5
70	MP1C	X	-13.938	1.5
71	MP1C	Z	8.047	1.5
72	MP1C	Mx	0	1.5
73	MP1A	X	-26.113	1
74	MP1A	Z	15.076	1
75	MP1A	Mx	.013	1
76	MP1A	X	-26.113	5
77	MP1A	Z	15.076	5
78	MP1A	Mx	.013	5
79	MP1B	X	-26.113	1
80	MP1B	Z	15.076	1
81	MP1B	Mx	-.013	1
82	MP1B	X	-26.113	5
83	MP1B	Z	15.076	5
84	MP1B	Mx	-.013	5
85	MP1C	X	-15.828	1
86	MP1C	Z	9.139	1
87	MP1C	Mx	0	1
88	MP1C	X	-15.828	5
89	MP1C	Z	9.139	5
90	MP1C	Mx	0	5
91	MP4A	X	-26.113	1
92	MP4A	Z	15.076	1
93	MP4A	Mx	.013	1
94	MP4A	X	-26.113	5
95	MP4A	Z	15.076	5
96	MP4A	Mx	.013	5
97	MP4B	X	-26.113	1
98	MP4B	Z	15.076	1
99	MP4B	Mx	-.013	1
100	MP4B	X	-26.113	5
101	MP4B	Z	15.076	5
102	MP4B	Mx	-.013	5

Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP4C	X	-15.828	1
104	MP4C	Z	9.139	1
105	MP4C	Mx	0	1
106	MP4C	X	-15.828	5
107	MP4C	Z	9.139	5
108	MP4C	Mx	0	5

Member Point Loads (BLC 24 : Antenna Wi (270 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-8.132	2.38
2	MP3A	Z	0	2.38
3	MP3A	Mx	.004	2.38
4	MP3A	X	-8.132	3.63
5	MP3A	Z	0	3.63
6	MP3A	Mx	.004	3.63
7	MP3B	X	-16.361	2.38
8	MP3B	Z	0	2.38
9	MP3B	Mx	-.004	2.38
10	MP3B	X	-16.361	3.63
11	MP3B	Z	0	3.63
12	MP3B	Mx	-.004	3.63
13	MP3C	X	-16.361	2.38
14	MP3C	Z	0	2.38
15	MP3C	Mx	-.004	2.38
16	MP3C	X	-16.361	3.63
17	MP3C	Z	0	3.63
18	MP3C	Mx	-.004	3.63
19	MP2A	X	-29.299	1
20	MP2A	Z	0	1
21	MP2A	Mx	.015	1
22	MP2A	X	-29.299	5
23	MP2A	Z	0	5
24	MP2A	Mx	.015	5
25	MP2B	X	-36.377	1
26	MP2B	Z	0	1
27	MP2B	Mx	.012	1
28	MP2B	X	-36.377	5
29	MP2B	Z	0	5
30	MP2B	Mx	.012	5
31	MP2C	X	-36.377	1
32	MP2C	Z	0	1
33	MP2C	Mx	-.03	1
34	MP2C	X	-36.377	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.03	5
37	MP2A	X	-29.299	1
38	MP2A	Z	0	1
39	MP2A	Mx	.015	1
40	MP2A	X	-29.299	5
41	MP2A	Z	0	5
42	MP2A	Mx	.015	5
43	MP2B	X	-36.377	1
44	MP2B	Z	0	1
45	MP2B	Mx	-.03	1
46	MP2B	X	-36.377	5
47	MP2B	Z	0	5

Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP2B	Mx	-.03	5
49	MP2C	X	-36.377	1
50	MP2C	Z	0	1
51	MP2C	Mx	.012	1
52	MP2C	X	-36.377	5
53	MP2C	Z	0	5
54	MP2C	Mx	.012	5
55	MP2A	X	-11.191	1.5
56	MP2A	Z	0	1.5
57	MP2A	Mx	-.006	1.5
58	MP2B	X	-14.868	1.5
59	MP2B	Z	0	1.5
60	MP2B	Mx	.004	1.5
61	MP2C	X	-14.868	1.5
62	MP2C	Z	0	1.5
63	MP2C	Mx	.004	1.5
64	MP1A	X	-10.308	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	-.005	1.5
67	MP1B	X	-14.647	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	.004	1.5
70	MP1C	X	-14.647	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	.004	1.5
73	MP1A	X	-34.111	1
74	MP1A	Z	0	1
75	MP1A	Mx	.017	1
76	MP1A	X	-34.111	5
77	MP1A	Z	0	5
78	MP1A	Mx	.017	5
79	MP1B	X	-22.235	1
80	MP1B	Z	0	1
81	MP1B	Mx	-.006	1
82	MP1B	X	-22.235	5
83	MP1B	Z	0	5
84	MP1B	Mx	-.006	5
85	MP1C	X	-22.235	1
86	MP1C	Z	0	1
87	MP1C	Mx	-.006	1
88	MP1C	X	-22.235	5
89	MP1C	Z	0	5
90	MP1C	Mx	-.006	5
91	MP4A	X	-34.111	1
92	MP4A	Z	0	1
93	MP4A	Mx	.017	1
94	MP4A	X	-34.111	5
95	MP4A	Z	0	5
96	MP4A	Mx	.017	5
97	MP4B	X	-22.235	1
98	MP4B	Z	0	1
99	MP4B	Mx	-.006	1
100	MP4B	X	-22.235	5
101	MP4B	Z	0	5
102	MP4B	Mx	-.006	5
103	MP4C	X	-22.235	1
104	MP4C	Z	0	1

Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP4C	Mx	-.006	1
106	MP4C	X	-22.235	5
107	MP4C	Z	0	5
108	MP4C	Mx	-.006	5

Member Point Loads (BLC 25 : Antenna Wi (300 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-9.418	2.38
2	MP3A	Z	-5.437	2.38
3	MP3A	Mx	.005	2.38
4	MP3A	X	-9.418	3.63
5	MP3A	Z	-5.437	3.63
6	MP3A	Mx	.005	3.63
7	MP3B	X	-16.545	2.38
8	MP3B	Z	-9.552	2.38
9	MP3B	Mx	0	2.38
10	MP3B	X	-16.545	3.63
11	MP3B	Z	-9.552	3.63
12	MP3B	Mx	0	3.63
13	MP3C	X	-9.418	2.38
14	MP3C	Z	-5.437	2.38
15	MP3C	Mx	-.005	2.38
16	MP3C	X	-9.418	3.63
17	MP3C	Z	-5.437	3.63
18	MP3C	Mx	-.005	3.63
19	MP2A	X	-27.417	1
20	MP2A	Z	-15.829	1
21	MP2A	Mx	.003	1
22	MP2A	X	-27.417	5
23	MP2A	Z	-15.829	5
24	MP2A	Mx	.003	5
25	MP2B	X	-33.546	1
26	MP2B	Z	-19.368	1
27	MP2B	Mx	.026	1
28	MP2B	X	-33.546	5
29	MP2B	Z	-19.368	5
30	MP2B	Mx	.026	5
31	MP2C	X	-27.417	1
32	MP2C	Z	-15.829	1
33	MP2C	Mx	-.024	1
34	MP2C	X	-27.417	5
35	MP2C	Z	-15.829	5
36	MP2C	Mx	-.024	5
37	MP2A	X	-27.417	1
38	MP2A	Z	-15.829	1
39	MP2A	Mx	.024	1
40	MP2A	X	-27.417	5
41	MP2A	Z	-15.829	5
42	MP2A	Mx	.024	5
43	MP2B	X	-33.546	1
44	MP2B	Z	-19.368	1
45	MP2B	Mx	-.026	1
46	MP2B	X	-33.546	5
47	MP2B	Z	-19.368	5
48	MP2B	Mx	-.026	5
49	MP2C	X	-27.417	1

Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP2C	Z	-15.829	1
51	MP2C	Mx	-.003	1
52	MP2C	X	-27.417	5
53	MP2C	Z	-15.829	5
54	MP2C	Mx	-.003	5
55	MP2A	X	-10.753	1.5
56	MP2A	Z	-6.208	1.5
57	MP2A	Mx	-.005	1.5
58	MP2B	X	-13.938	1.5
59	MP2B	Z	-8.047	1.5
60	MP2B	Mx	0	1.5
61	MP2C	X	-10.753	1.5
62	MP2C	Z	-6.208	1.5
63	MP2C	Mx	.005	1.5
64	MP1A	X	-10.18	1.5
65	MP1A	Z	-5.877	1.5
66	MP1A	Mx	-.005	1.5
67	MP1B	X	-13.938	1.5
68	MP1B	Z	-8.047	1.5
69	MP1B	Mx	0	1.5
70	MP1C	X	-10.18	1.5
71	MP1C	Z	-5.877	1.5
72	MP1C	Mx	.005	1.5
73	MP1A	X	-26.113	1
74	MP1A	Z	-15.076	1
75	MP1A	Mx	.013	1
76	MP1A	X	-26.113	5
77	MP1A	Z	-15.076	5
78	MP1A	Mx	.013	5
79	MP1B	X	-15.828	1
80	MP1B	Z	-9.139	1
81	MP1B	Mx	0	1
82	MP1B	X	-15.828	5
83	MP1B	Z	-9.139	5
84	MP1B	Mx	0	5
85	MP1C	X	-26.113	1
86	MP1C	Z	-15.076	1
87	MP1C	Mx	-.013	1
88	MP1C	X	-26.113	5
89	MP1C	Z	-15.076	5
90	MP1C	Mx	-.013	5
91	MP4A	X	-26.113	1
92	MP4A	Z	-15.076	1
93	MP4A	Mx	.013	1
94	MP4A	X	-26.113	5
95	MP4A	Z	-15.076	5
96	MP4A	Mx	.013	5
97	MP4B	X	-15.828	1
98	MP4B	Z	-9.139	1
99	MP4B	Mx	0	1
100	MP4B	X	-15.828	5
101	MP4B	Z	-9.139	5
102	MP4B	Mx	0	5
103	MP4C	X	-26.113	1
104	MP4C	Z	-15.076	1
105	MP4C	Mx	-.013	1
106	MP4C	X	-26.113	5

Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
107	MP4C	Z	-15.076	5
108	MP4C	Mx	-.013	5

Member Point Loads (BLC 26 : Antenna Wi (330 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-8.181	2.38
2	MP3A	Z	-14.169	2.38
3	MP3A	Mx	.004	2.38
4	MP3A	X	-8.181	3.63
5	MP3A	Z	-14.169	3.63
6	MP3A	Mx	.004	3.63
7	MP3B	X	-8.181	2.38
8	MP3B	Z	-14.169	2.38
9	MP3B	Mx	.004	2.38
10	MP3B	X	-8.181	3.63
11	MP3B	Z	-14.169	3.63
12	MP3B	Mx	.004	3.63
13	MP3C	X	-4.066	2.38
14	MP3C	Z	-7.042	2.38
15	MP3C	Mx	-.004	2.38
16	MP3C	X	-4.066	3.63
17	MP3C	Z	-7.042	3.63
18	MP3C	Mx	-.004	3.63
19	MP2A	X	-18.188	1
20	MP2A	Z	-31.503	1
21	MP2A	Mx	-.012	1
22	MP2A	X	-18.188	5
23	MP2A	Z	-31.503	5
24	MP2A	Mx	-.012	5
25	MP2B	X	-18.188	1
26	MP2B	Z	-31.503	1
27	MP2B	Mx	.03	1
28	MP2B	X	-18.188	5
29	MP2B	Z	-31.503	5
30	MP2B	Mx	.03	5
31	MP2C	X	-14.65	1
32	MP2C	Z	-25.374	1
33	MP2C	Mx	-.015	1
34	MP2C	X	-14.65	5
35	MP2C	Z	-25.374	5
36	MP2C	Mx	-.015	5
37	MP2A	X	-18.188	1
38	MP2A	Z	-31.503	1
39	MP2A	Mx	.03	1
40	MP2A	X	-18.188	5
41	MP2A	Z	-31.503	5
42	MP2A	Mx	.03	5
43	MP2B	X	-18.188	1
44	MP2B	Z	-31.503	1
45	MP2B	Mx	-.012	1
46	MP2B	X	-18.188	5
47	MP2B	Z	-31.503	5
48	MP2B	Mx	-.012	5
49	MP2C	X	-14.65	1
50	MP2C	Z	-25.374	1
51	MP2C	Mx	-.015	1

Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP2C	X	-14.65	5
53	MP2C	Z	-25.374	5
54	MP2C	Mx	-.015	5
55	MP2A	X	-7.434	1.5
56	MP2A	Z	-12.876	1.5
57	MP2A	Mx	-.004	1.5
58	MP2B	X	-7.434	1.5
59	MP2B	Z	-12.876	1.5
60	MP2B	Mx	-.004	1.5
61	MP2C	X	-5.595	1.5
62	MP2C	Z	-9.692	1.5
63	MP2C	Mx	.006	1.5
64	MP1A	X	-7.324	1.5
65	MP1A	Z	-12.685	1.5
66	MP1A	Mx	-.004	1.5
67	MP1B	X	-7.324	1.5
68	MP1B	Z	-12.685	1.5
69	MP1B	Mx	-.004	1.5
70	MP1C	X	-5.154	1.5
71	MP1C	Z	-8.927	1.5
72	MP1C	Mx	.005	1.5
73	MP1A	X	-11.118	1
74	MP1A	Z	-19.256	1
75	MP1A	Mx	.006	1
76	MP1A	X	-11.118	5
77	MP1A	Z	-19.256	5
78	MP1A	Mx	.006	5
79	MP1B	X	-11.118	1
80	MP1B	Z	-19.256	1
81	MP1B	Mx	.006	1
82	MP1B	X	-11.118	5
83	MP1B	Z	-19.256	5
84	MP1B	Mx	.006	5
85	MP1C	X	-17.055	1
86	MP1C	Z	-29.541	1
87	MP1C	Mx	-.017	1
88	MP1C	X	-17.055	5
89	MP1C	Z	-29.541	5
90	MP1C	Mx	-.017	5
91	MP4A	X	-11.118	1
92	MP4A	Z	-19.256	1
93	MP4A	Mx	.006	1
94	MP4A	X	-11.118	5
95	MP4A	Z	-19.256	5
96	MP4A	Mx	.006	5
97	MP4B	X	-11.118	1
98	MP4B	Z	-19.256	1
99	MP4B	Mx	.006	1
100	MP4B	X	-11.118	5
101	MP4B	Z	-19.256	5
102	MP4B	Mx	.006	5
103	MP4C	X	-17.055	1
104	MP4C	Z	-29.541	1
105	MP4C	Mx	-.017	1
106	MP4C	X	-17.055	5
107	MP4C	Z	-29.541	5
108	MP4C	Mx	-.017	5

Member Point Loads (BLC 27 : Antenna Wm (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	2.38
2	MP3A	Z	-6.094	2.38
3	MP3A	Mx	0	2.38
4	MP3A	X	0	3.63
5	MP3A	Z	-6.094	3.63
6	MP3A	Mx	0	3.63
7	MP3B	X	0	2.38
8	MP3B	Z	-3.313	2.38
9	MP3B	Mx	.001	2.38
10	MP3B	X	0	3.63
11	MP3B	Z	-3.313	3.63
12	MP3B	Mx	.001	3.63
13	MP3C	X	0	2.38
14	MP3C	Z	-3.313	2.38
15	MP3C	Mx	-.001	2.38
16	MP3C	X	0	3.63
17	MP3C	Z	-3.313	3.63
18	MP3C	Mx	-.001	3.63
19	MP2A	X	0	1
20	MP2A	Z	-12.797	1
21	MP2A	Mx	-.009	1
22	MP2A	X	0	5
23	MP2A	Z	-12.797	5
24	MP2A	Mx	-.009	5
25	MP2B	X	0	1
26	MP2B	Z	-10.335	1
27	MP2B	Mx	.008	1
28	MP2B	X	0	5
29	MP2B	Z	-10.335	5
30	MP2B	Mx	.008	5
31	MP2C	X	0	1
32	MP2C	Z	-10.335	1
33	MP2C	Mx	-.001	1
34	MP2C	X	0	5
35	MP2C	Z	-10.335	5
36	MP2C	Mx	-.001	5
37	MP2A	X	0	1
38	MP2A	Z	-12.797	1
39	MP2A	Mx	.009	1
40	MP2A	X	0	5
41	MP2A	Z	-12.797	5
42	MP2A	Mx	.009	5
43	MP2B	X	0	1
44	MP2B	Z	-10.335	1
45	MP2B	Mx	.001	1
46	MP2B	X	0	5
47	MP2B	Z	-10.335	5
48	MP2B	Mx	.001	5
49	MP2C	X	0	1
50	MP2C	Z	-10.335	1
51	MP2C	Mx	-.008	1
52	MP2C	X	0	5
53	MP2C	Z	-10.335	5
54	MP2C	Mx	-.008	5
55	MP2A	X	0	1.5
56	MP2A	Z	-4.849	1.5
57	MP2A	Mx	0	1.5

Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	0	1.5
59	MP2B	Z	-3.643	1.5
60	MP2B	Mx	-.002	1.5
61	MP2C	X	0	1.5
62	MP2C	Z	-3.643	1.5
63	MP2C	Mx	.002	1.5
64	MP1A	X	0	1.5
65	MP1A	Z	-4.849	1.5
66	MP1A	Mx	0	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	-3.425	1.5
69	MP1B	Mx	-.001	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	-3.425	1.5
72	MP1C	Mx	.001	1.5
73	MP1A	X	0	1
74	MP1A	Z	-5.614	1
75	MP1A	Mx	0	1
76	MP1A	X	0	5
77	MP1A	Z	-5.614	5
78	MP1A	Mx	0	5
79	MP1B	X	0	1
80	MP1B	Z	-9.794	1
81	MP1B	Mx	.004	1
82	MP1B	X	0	5
83	MP1B	Z	-9.794	5
84	MP1B	Mx	.004	5
85	MP1C	X	0	1
86	MP1C	Z	-9.794	1
87	MP1C	Mx	-.004	1
88	MP1C	X	0	5
89	MP1C	Z	-9.794	5
90	MP1C	Mx	-.004	5
91	MP4A	X	0	1
92	MP4A	Z	-5.614	1
93	MP4A	Mx	0	1
94	MP4A	X	0	5
95	MP4A	Z	-5.614	5
96	MP4A	Mx	0	5
97	MP4B	X	0	1
98	MP4B	Z	-9.794	1
99	MP4B	Mx	.004	1
100	MP4B	X	0	5
101	MP4B	Z	-9.794	5
102	MP4B	Mx	.004	5
103	MP4C	X	0	1
104	MP4C	Z	-9.794	1
105	MP4C	Mx	-.004	1
106	MP4C	X	0	5
107	MP4C	Z	-9.794	5
108	MP4C	Mx	-.004	5

Member Point Loads (BLC 28 : Antenna Wm (30 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.583	2.38
2	MP3A	Z	-4.475	2.38

Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP3A	Mx	-.001	2.38
4	MP3A	X	2.583	3.63
5	MP3A	Z	-4.475	3.63
6	MP3A	Mx	-.001	3.63
7	MP3B	X	1.193	2.38
8	MP3B	Z	-2.066	2.38
9	MP3B	Mx	.001	2.38
10	MP3B	X	1.193	3.63
11	MP3B	Z	-2.066	3.63
12	MP3B	Mx	.001	3.63
13	MP3C	X	2.583	2.38
14	MP3C	Z	-4.475	2.38
15	MP3C	Mx	-.001	2.38
16	MP3C	X	2.583	3.63
17	MP3C	Z	-4.475	3.63
18	MP3C	Mx	-.001	3.63
19	MP2A	X	5.988	1
20	MP2A	Z	-10.372	1
21	MP2A	Mx	-.01	1
22	MP2A	X	5.988	5
23	MP2A	Z	-10.372	5
24	MP2A	Mx	-.01	5
25	MP2B	X	4.757	1
26	MP2B	Z	-8.24	1
27	MP2B	Mx	.005	1
28	MP2B	X	4.757	5
29	MP2B	Z	-8.24	5
30	MP2B	Mx	.005	5
31	MP2C	X	5.988	1
32	MP2C	Z	-10.372	1
33	MP2C	Mx	.004	1
34	MP2C	X	5.988	5
35	MP2C	Z	-10.372	5
36	MP2C	Mx	.004	5
37	MP2A	X	5.988	1
38	MP2A	Z	-10.372	1
39	MP2A	Mx	.004	1
40	MP2A	X	5.988	5
41	MP2A	Z	-10.372	5
42	MP2A	Mx	.004	5
43	MP2B	X	4.757	1
44	MP2B	Z	-8.24	1
45	MP2B	Mx	.005	1
46	MP2B	X	4.757	5
47	MP2B	Z	-8.24	5
48	MP2B	Mx	.005	5
49	MP2C	X	5.988	1
50	MP2C	Z	-10.372	1
51	MP2C	Mx	-.01	1
52	MP2C	X	5.988	5
53	MP2C	Z	-10.372	5
54	MP2C	Mx	-.01	5
55	MP2A	X	2.224	1.5
56	MP2A	Z	-3.852	1.5
57	MP2A	Mx	.001	1.5
58	MP2B	X	1.621	1.5
59	MP2B	Z	-2.807	1.5

Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2B	Mx	-.002	1.5
61	MP2C	X	2.224	1.5
62	MP2C	Z	-3.852	1.5
63	MP2C	Mx	.001	1.5
64	MP1A	X	2.187	1.5
65	MP1A	Z	-3.788	1.5
66	MP1A	Mx	.001	1.5
67	MP1B	X	1.475	1.5
68	MP1B	Z	-2.555	1.5
69	MP1B	Mx	-.001	1.5
70	MP1C	X	2.187	1.5
71	MP1C	Z	-3.788	1.5
72	MP1C	Mx	.001	1.5
73	MP1A	X	3.504	1
74	MP1A	Z	-6.069	1
75	MP1A	Mx	-.002	1
76	MP1A	X	3.504	5
77	MP1A	Z	-6.069	5
78	MP1A	Mx	-.002	5
79	MP1B	X	5.594	1
80	MP1B	Z	-9.689	1
81	MP1B	Mx	.006	1
82	MP1B	X	5.594	5
83	MP1B	Z	-9.689	5
84	MP1B	Mx	.006	5
85	MP1C	X	3.504	1
86	MP1C	Z	-6.069	1
87	MP1C	Mx	-.002	1
88	MP1C	X	3.504	5
89	MP1C	Z	-6.069	5
90	MP1C	Mx	-.002	5
91	MP4A	X	3.504	1
92	MP4A	Z	-6.069	1
93	MP4A	Mx	-.002	1
94	MP4A	X	3.504	5
95	MP4A	Z	-6.069	5
96	MP4A	Mx	-.002	5
97	MP4B	X	5.594	1
98	MP4B	Z	-9.689	1
99	MP4B	Mx	.006	1
100	MP4B	X	5.594	5
101	MP4B	Z	-9.689	5
102	MP4B	Mx	.006	5
103	MP4C	X	3.504	1
104	MP4C	Z	-6.069	1
105	MP4C	Mx	-.002	1
106	MP4C	X	3.504	5
107	MP4C	Z	-6.069	5
108	MP4C	Mx	-.002	5

Member Point Loads (BLC 29 : Antenna Wm (60 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.869	2.38
2	MP3A	Z	-1.656	2.38
3	MP3A	Mx	-.001	2.38
4	MP3A	X	2.869	3.63

Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP3A	Z	-1.656	3.63
6	MP3A	Mx	-.001	3.63
7	MP3B	X	2.869	2.38
8	MP3B	Z	-1.656	2.38
9	MP3B	Mx	.001	2.38
10	MP3B	X	2.869	3.63
11	MP3B	Z	-1.656	3.63
12	MP3B	Mx	.001	3.63
13	MP3C	X	5.278	2.38
14	MP3C	Z	-3.047	2.38
15	MP3C	Mx	0	2.38
16	MP3C	X	5.278	3.63
17	MP3C	Z	-3.047	3.63
18	MP3C	Mx	0	3.63
19	MP2A	X	8.951	1
20	MP2A	Z	-5.168	1
21	MP2A	Mx	-.008	1
22	MP2A	X	8.951	5
23	MP2A	Z	-5.168	5
24	MP2A	Mx	-.008	5
25	MP2B	X	8.951	1
26	MP2B	Z	-5.168	1
27	MP2B	Mx	.001	1
28	MP2B	X	8.951	5
29	MP2B	Z	-5.168	5
30	MP2B	Mx	.001	5
31	MP2C	X	11.083	1
32	MP2C	Z	-6.399	1
33	MP2C	Mx	.009	1
34	MP2C	X	11.083	5
35	MP2C	Z	-6.399	5
36	MP2C	Mx	.009	5
37	MP2A	X	8.951	1
38	MP2A	Z	-5.168	1
39	MP2A	Mx	-.001	1
40	MP2A	X	8.951	5
41	MP2A	Z	-5.168	5
42	MP2A	Mx	-.001	5
43	MP2B	X	8.951	1
44	MP2B	Z	-5.168	1
45	MP2B	Mx	.008	1
46	MP2B	X	8.951	5
47	MP2B	Z	-5.168	5
48	MP2B	Mx	.008	5
49	MP2C	X	11.083	1
50	MP2C	Z	-6.399	1
51	MP2C	Mx	-.009	1
52	MP2C	X	11.083	5
53	MP2C	Z	-6.399	5
54	MP2C	Mx	-.009	5
55	MP2A	X	3.155	1.5
56	MP2A	Z	-1.822	1.5
57	MP2A	Mx	.002	1.5
58	MP2B	X	3.155	1.5
59	MP2B	Z	-1.822	1.5
60	MP2B	Mx	-.002	1.5
61	MP2C	X	4.2	1.5

Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP2C	Z	-2.425	1.5
63	MP2C	Mx	0	1.5
64	MP1A	X	2.966	1.5
65	MP1A	Z	-1.712	1.5
66	MP1A	Mx	.001	1.5
67	MP1B	X	2.966	1.5
68	MP1B	Z	-1.712	1.5
69	MP1B	Mx	-.001	1.5
70	MP1C	X	4.2	1.5
71	MP1C	Z	-2.425	1.5
72	MP1C	Mx	0	1.5
73	MP1A	X	8.482	1
74	MP1A	Z	-4.897	1
75	MP1A	Mx	-.004	1
76	MP1A	X	8.482	5
77	MP1A	Z	-4.897	5
78	MP1A	Mx	-.004	5
79	MP1B	X	8.482	1
80	MP1B	Z	-4.897	1
81	MP1B	Mx	.004	1
82	MP1B	X	8.482	5
83	MP1B	Z	-4.897	5
84	MP1B	Mx	.004	5
85	MP1C	X	4.862	1
86	MP1C	Z	-2.807	1
87	MP1C	Mx	0	1
88	MP1C	X	4.862	5
89	MP1C	Z	-2.807	5
90	MP1C	Mx	0	5
91	MP4A	X	8.482	1
92	MP4A	Z	-4.897	1
93	MP4A	Mx	-.004	1
94	MP4A	X	8.482	5
95	MP4A	Z	-4.897	5
96	MP4A	Mx	-.004	5
97	MP4B	X	8.482	1
98	MP4B	Z	-4.897	1
99	MP4B	Mx	.004	1
100	MP4B	X	8.482	5
101	MP4B	Z	-4.897	5
102	MP4B	Mx	.004	5
103	MP4C	X	4.862	1
104	MP4C	Z	-2.807	1
105	MP4C	Mx	0	1
106	MP4C	X	4.862	5
107	MP4C	Z	-2.807	5
108	MP4C	Mx	0	5

Member Point Loads (BLC 30 : Antenna Wm (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.386	2.38
2	MP3A	Z	0	2.38
3	MP3A	Mx	-.001	2.38
4	MP3A	X	2.386	3.63
5	MP3A	Z	0	3.63
6	MP3A	Mx	-.001	3.63

Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP3B	X	5.167	2.38
8	MP3B	Z	0	2.38
9	MP3B	Mx	.001	2.38
10	MP3B	X	5.167	3.63
11	MP3B	Z	0	3.63
12	MP3B	Mx	.001	3.63
13	MP3C	X	5.167	2.38
14	MP3C	Z	0	2.38
15	MP3C	Mx	.001	2.38
16	MP3C	X	5.167	3.63
17	MP3C	Z	0	3.63
18	MP3C	Mx	.001	3.63
19	MP2A	X	9.514	1
20	MP2A	Z	0	1
21	MP2A	Mx	-.005	1
22	MP2A	X	9.514	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.005	5
25	MP2B	X	11.977	1
26	MP2B	Z	0	1
27	MP2B	Mx	-.004	1
28	MP2B	X	11.977	5
29	MP2B	Z	0	5
30	MP2B	Mx	-.004	5
31	MP2C	X	11.977	1
32	MP2C	Z	0	1
33	MP2C	Mx	.01	1
34	MP2C	X	11.977	5
35	MP2C	Z	0	5
36	MP2C	Mx	.01	5
37	MP2A	X	9.514	1
38	MP2A	Z	0	1
39	MP2A	Mx	-.005	1
40	MP2A	X	9.514	5
41	MP2A	Z	0	5
42	MP2A	Mx	-.005	5
43	MP2B	X	11.977	1
44	MP2B	Z	0	1
45	MP2B	Mx	.01	1
46	MP2B	X	11.977	5
47	MP2B	Z	0	5
48	MP2B	Mx	.01	5
49	MP2C	X	11.977	1
50	MP2C	Z	0	1
51	MP2C	Mx	-.004	1
52	MP2C	X	11.977	5
53	MP2C	Z	0	5
54	MP2C	Mx	-.004	5
55	MP2A	X	3.242	1.5
56	MP2A	Z	0	1.5
57	MP2A	Mx	.002	1.5
58	MP2B	X	4.447	1.5
59	MP2B	Z	0	1.5
60	MP2B	Mx	-.001	1.5
61	MP2C	X	4.447	1.5
62	MP2C	Z	0	1.5
63	MP2C	Mx	-.001	1.5

Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP1A	X	2.95	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	.001	1.5
67	MP1B	X	4.374	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	-.001	1.5
70	MP1C	X	4.374	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	-.001	1.5
73	MP1A	X	11.188	1
74	MP1A	Z	0	1
75	MP1A	Mx	-.006	1
76	MP1A	X	11.188	5
77	MP1A	Z	0	5
78	MP1A	Mx	-.006	5
79	MP1B	X	7.008	1
80	MP1B	Z	0	1
81	MP1B	Mx	.002	1
82	MP1B	X	7.008	5
83	MP1B	Z	0	5
84	MP1B	Mx	.002	5
85	MP1C	X	7.008	1
86	MP1C	Z	0	1
87	MP1C	Mx	.002	1
88	MP1C	X	7.008	5
89	MP1C	Z	0	5
90	MP1C	Mx	.002	5
91	MP4A	X	11.188	1
92	MP4A	Z	0	1
93	MP4A	Mx	-.006	1
94	MP4A	X	11.188	5
95	MP4A	Z	0	5
96	MP4A	Mx	-.006	5
97	MP4B	X	7.008	1
98	MP4B	Z	0	1
99	MP4B	Mx	.002	1
100	MP4B	X	7.008	5
101	MP4B	Z	0	5
102	MP4B	Mx	.002	5
103	MP4C	X	7.008	1
104	MP4C	Z	0	1
105	MP4C	Mx	.002	1
106	MP4C	X	7.008	5
107	MP4C	Z	0	5
108	MP4C	Mx	.002	5

Member Point Loads (BLC 31 : Antenna Wm (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.869	2.38
2	MP3A	Z	1.656	2.38
3	MP3A	Mx	-.001	2.38
4	MP3A	X	2.869	3.63
5	MP3A	Z	1.656	3.63
6	MP3A	Mx	-.001	3.63
7	MP3B	X	5.278	2.38
8	MP3B	Z	3.047	2.38

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP3B	Mx	0	2.38
10	MP3B	X	5.278	3.63
11	MP3B	Z	3.047	3.63
12	MP3B	Mx	0	3.63
13	MP3C	X	2.869	2.38
14	MP3C	Z	1.656	2.38
15	MP3C	Mx	.001	2.38
16	MP3C	X	2.869	3.63
17	MP3C	Z	1.656	3.63
18	MP3C	Mx	.001	3.63
19	MP2A	X	8.951	1
20	MP2A	Z	5.168	1
21	MP2A	Mx	-.001	1
22	MP2A	X	8.951	5
23	MP2A	Z	5.168	5
24	MP2A	Mx	-.001	5
25	MP2B	X	11.083	1
26	MP2B	Z	6.399	1
27	MP2B	Mx	-.009	1
28	MP2B	X	11.083	5
29	MP2B	Z	6.399	5
30	MP2B	Mx	-.009	5
31	MP2C	X	8.951	1
32	MP2C	Z	5.168	1
33	MP2C	Mx	.008	1
34	MP2C	X	8.951	5
35	MP2C	Z	5.168	5
36	MP2C	Mx	.008	5
37	MP2A	X	8.951	1
38	MP2A	Z	5.168	1
39	MP2A	Mx	-.008	1
40	MP2A	X	8.951	5
41	MP2A	Z	5.168	5
42	MP2A	Mx	-.008	5
43	MP2B	X	11.083	1
44	MP2B	Z	6.399	1
45	MP2B	Mx	.009	1
46	MP2B	X	11.083	5
47	MP2B	Z	6.399	5
48	MP2B	Mx	.009	5
49	MP2C	X	8.951	1
50	MP2C	Z	5.168	1
51	MP2C	Mx	.001	1
52	MP2C	X	8.951	5
53	MP2C	Z	5.168	5
54	MP2C	Mx	.001	5
55	MP2A	X	3.155	1.5
56	MP2A	Z	1.822	1.5
57	MP2A	Mx	.002	1.5
58	MP2B	X	4.2	1.5
59	MP2B	Z	2.425	1.5
60	MP2B	Mx	0	1.5
61	MP2C	X	3.155	1.5
62	MP2C	Z	1.822	1.5
63	MP2C	Mx	-.002	1.5
64	MP1A	X	2.966	1.5
65	MP1A	Z	1.712	1.5

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP1A	Mx	.001	1.5
67	MP1B	X	4.2	1.5
68	MP1B	Z	2.425	1.5
69	MP1B	Mx	0	1.5
70	MP1C	X	2.966	1.5
71	MP1C	Z	1.712	1.5
72	MP1C	Mx	-.001	1.5
73	MP1A	X	8.482	1
74	MP1A	Z	4.897	1
75	MP1A	Mx	-.004	1
76	MP1A	X	8.482	5
77	MP1A	Z	4.897	5
78	MP1A	Mx	-.004	5
79	MP1B	X	4.862	1
80	MP1B	Z	2.807	1
81	MP1B	Mx	0	1
82	MP1B	X	4.862	5
83	MP1B	Z	2.807	5
84	MP1B	Mx	0	5
85	MP1C	X	8.482	1
86	MP1C	Z	4.897	1
87	MP1C	Mx	.004	1
88	MP1C	X	8.482	5
89	MP1C	Z	4.897	5
90	MP1C	Mx	.004	5
91	MP4A	X	8.482	1
92	MP4A	Z	4.897	1
93	MP4A	Mx	-.004	1
94	MP4A	X	8.482	5
95	MP4A	Z	4.897	5
96	MP4A	Mx	-.004	5
97	MP4B	X	4.862	1
98	MP4B	Z	2.807	1
99	MP4B	Mx	0	1
100	MP4B	X	4.862	5
101	MP4B	Z	2.807	5
102	MP4B	Mx	0	5
103	MP4C	X	8.482	1
104	MP4C	Z	4.897	1
105	MP4C	Mx	.004	1
106	MP4C	X	8.482	5
107	MP4C	Z	4.897	5
108	MP4C	Mx	.004	5

Member Point Loads (BLC 32 : Antenna Wm (150 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.583	2.38
2	MP3A	Z	4.475	2.38
3	MP3A	Mx	-.001	2.38
4	MP3A	X	2.583	3.63
5	MP3A	Z	4.475	3.63
6	MP3A	Mx	-.001	3.63
7	MP3B	X	2.583	2.38
8	MP3B	Z	4.475	2.38
9	MP3B	Mx	-.001	2.38
10	MP3B	X	2.583	3.63

Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP3B	Z	4.475	3.63
12	MP3B	Mx	-.001	3.63
13	MP3C	X	1.193	2.38
14	MP3C	Z	2.066	2.38
15	MP3C	Mx	.001	2.38
16	MP3C	X	1.193	3.63
17	MP3C	Z	2.066	3.63
18	MP3C	Mx	.001	3.63
19	MP2A	X	5.988	1
20	MP2A	Z	10.372	1
21	MP2A	Mx	.004	1
22	MP2A	X	5.988	5
23	MP2A	Z	10.372	5
24	MP2A	Mx	.004	5
25	MP2B	X	5.988	1
26	MP2B	Z	10.372	1
27	MP2B	Mx	-.01	1
28	MP2B	X	5.988	5
29	MP2B	Z	10.372	5
30	MP2B	Mx	-.01	5
31	MP2C	X	4.757	1
32	MP2C	Z	8.24	1
33	MP2C	Mx	.005	1
34	MP2C	X	4.757	5
35	MP2C	Z	8.24	5
36	MP2C	Mx	.005	5
37	MP2A	X	5.988	1
38	MP2A	Z	10.372	1
39	MP2A	Mx	-.01	1
40	MP2A	X	5.988	5
41	MP2A	Z	10.372	5
42	MP2A	Mx	-.01	5
43	MP2B	X	5.988	1
44	MP2B	Z	10.372	1
45	MP2B	Mx	.004	1
46	MP2B	X	5.988	5
47	MP2B	Z	10.372	5
48	MP2B	Mx	.004	5
49	MP2C	X	4.757	1
50	MP2C	Z	8.24	1
51	MP2C	Mx	.005	1
52	MP2C	X	4.757	5
53	MP2C	Z	8.24	5
54	MP2C	Mx	.005	5
55	MP2A	X	2.224	1.5
56	MP2A	Z	3.852	1.5
57	MP2A	Mx	.001	1.5
58	MP2B	X	2.224	1.5
59	MP2B	Z	3.852	1.5
60	MP2B	Mx	.001	1.5
61	MP2C	X	1.621	1.5
62	MP2C	Z	2.807	1.5
63	MP2C	Mx	-.002	1.5
64	MP1A	X	2.187	1.5
65	MP1A	Z	3.788	1.5
66	MP1A	Mx	.001	1.5
67	MP1B	X	2.187	1.5

Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP1B	Z	3.788	1.5
69	MP1B	Mx	.001	1.5
70	MP1C	X	1.475	1.5
71	MP1C	Z	2.555	1.5
72	MP1C	Mx	-.001	1.5
73	MP1A	X	3.504	1
74	MP1A	Z	6.069	1
75	MP1A	Mx	-.002	1
76	MP1A	X	3.504	5
77	MP1A	Z	6.069	5
78	MP1A	Mx	-.002	5
79	MP1B	X	3.504	1
80	MP1B	Z	6.069	1
81	MP1B	Mx	-.002	1
82	MP1B	X	3.504	5
83	MP1B	Z	6.069	5
84	MP1B	Mx	-.002	5
85	MP1C	X	5.594	1
86	MP1C	Z	9.689	1
87	MP1C	Mx	.006	1
88	MP1C	X	5.594	5
89	MP1C	Z	9.689	5
90	MP1C	Mx	.006	5
91	MP4A	X	3.504	1
92	MP4A	Z	6.069	1
93	MP4A	Mx	-.002	1
94	MP4A	X	3.504	5
95	MP4A	Z	6.069	5
96	MP4A	Mx	-.002	5
97	MP4B	X	3.504	1
98	MP4B	Z	6.069	1
99	MP4B	Mx	-.002	1
100	MP4B	X	3.504	5
101	MP4B	Z	6.069	5
102	MP4B	Mx	-.002	5
103	MP4C	X	5.594	1
104	MP4C	Z	9.689	1
105	MP4C	Mx	.006	1
106	MP4C	X	5.594	5
107	MP4C	Z	9.689	5
108	MP4C	Mx	.006	5

Member Point Loads (BLC 33 : Antenna Wm (180 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	2.38
2	MP3A	Z	6.094	2.38
3	MP3A	Mx	0	2.38
4	MP3A	X	0	3.63
5	MP3A	Z	6.094	3.63
6	MP3A	Mx	0	3.63
7	MP3B	X	0	2.38
8	MP3B	Z	3.313	2.38
9	MP3B	Mx	-.001	2.38
10	MP3B	X	0	3.63
11	MP3B	Z	3.313	3.63
12	MP3B	Mx	-.001	3.63

Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP3C	X	0	2.38
14	MP3C	Z	3.313	2.38
15	MP3C	Mx	.001	2.38
16	MP3C	X	0	3.63
17	MP3C	Z	3.313	3.63
18	MP3C	Mx	.001	3.63
19	MP2A	X	0	1
20	MP2A	Z	12.797	1
21	MP2A	Mx	.009	1
22	MP2A	X	0	5
23	MP2A	Z	12.797	5
24	MP2A	Mx	.009	5
25	MP2B	X	0	1
26	MP2B	Z	10.335	1
27	MP2B	Mx	-.008	1
28	MP2B	X	0	5
29	MP2B	Z	10.335	5
30	MP2B	Mx	-.008	5
31	MP2C	X	0	1
32	MP2C	Z	10.335	1
33	MP2C	Mx	.001	1
34	MP2C	X	0	5
35	MP2C	Z	10.335	5
36	MP2C	Mx	.001	5
37	MP2A	X	0	1
38	MP2A	Z	12.797	1
39	MP2A	Mx	-.009	1
40	MP2A	X	0	5
41	MP2A	Z	12.797	5
42	MP2A	Mx	-.009	5
43	MP2B	X	0	1
44	MP2B	Z	10.335	1
45	MP2B	Mx	-.001	1
46	MP2B	X	0	5
47	MP2B	Z	10.335	5
48	MP2B	Mx	-.001	5
49	MP2C	X	0	1
50	MP2C	Z	10.335	1
51	MP2C	Mx	.008	1
52	MP2C	X	0	5
53	MP2C	Z	10.335	5
54	MP2C	Mx	.008	5
55	MP2A	X	0	1.5
56	MP2A	Z	4.849	1.5
57	MP2A	Mx	0	1.5
58	MP2B	X	0	1.5
59	MP2B	Z	3.643	1.5
60	MP2B	Mx	.002	1.5
61	MP2C	X	0	1.5
62	MP2C	Z	3.643	1.5
63	MP2C	Mx	-.002	1.5
64	MP1A	X	0	1.5
65	MP1A	Z	4.849	1.5
66	MP1A	Mx	0	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	3.425	1.5
69	MP1B	Mx	.001	1.5

Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
70	MP1C	X	0	1.5
71	MP1C	Z	3.425	1.5
72	MP1C	Mx	-.001	1.5
73	MP1A	X	0	1
74	MP1A	Z	5.614	1
75	MP1A	Mx	0	1
76	MP1A	X	0	5
77	MP1A	Z	5.614	5
78	MP1A	Mx	0	5
79	MP1B	X	0	1
80	MP1B	Z	9.794	1
81	MP1B	Mx	-.004	1
82	MP1B	X	0	5
83	MP1B	Z	9.794	5
84	MP1B	Mx	-.004	5
85	MP1C	X	0	1
86	MP1C	Z	9.794	1
87	MP1C	Mx	.004	1
88	MP1C	X	0	5
89	MP1C	Z	9.794	5
90	MP1C	Mx	.004	5
91	MP4A	X	0	1
92	MP4A	Z	5.614	1
93	MP4A	Mx	0	1
94	MP4A	X	0	5
95	MP4A	Z	5.614	5
96	MP4A	Mx	0	5
97	MP4B	X	0	1
98	MP4B	Z	9.794	1
99	MP4B	Mx	-.004	1
100	MP4B	X	0	5
101	MP4B	Z	9.794	5
102	MP4B	Mx	-.004	5
103	MP4C	X	0	1
104	MP4C	Z	9.794	1
105	MP4C	Mx	.004	1
106	MP4C	X	0	5
107	MP4C	Z	9.794	5
108	MP4C	Mx	.004	5

Member Point Loads (BLC 34 : Antenna Wm (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.583	2.38
2	MP3A	Z	4.475	2.38
3	MP3A	Mx	.001	2.38
4	MP3A	X	-2.583	3.63
5	MP3A	Z	4.475	3.63
6	MP3A	Mx	.001	3.63
7	MP3B	X	-1.193	2.38
8	MP3B	Z	2.066	2.38
9	MP3B	Mx	-.001	2.38
10	MP3B	X	-1.193	3.63
11	MP3B	Z	2.066	3.63
12	MP3B	Mx	-.001	3.63
13	MP3C	X	-2.583	2.38
14	MP3C	Z	4.475	2.38

Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP3C	Mx	.001	2.38
16	MP3C	X	-2.583	3.63
17	MP3C	Z	4.475	3.63
18	MP3C	Mx	.001	3.63
19	MP2A	X	-5.988	1
20	MP2A	Z	10.372	1
21	MP2A	Mx	.01	1
22	MP2A	X	-5.988	5
23	MP2A	Z	10.372	5
24	MP2A	Mx	.01	5
25	MP2B	X	-4.757	1
26	MP2B	Z	8.24	1
27	MP2B	Mx	-.005	1
28	MP2B	X	-4.757	5
29	MP2B	Z	8.24	5
30	MP2B	Mx	-.005	5
31	MP2C	X	-5.988	1
32	MP2C	Z	10.372	1
33	MP2C	Mx	-.004	1
34	MP2C	X	-5.988	5
35	MP2C	Z	10.372	5
36	MP2C	Mx	-.004	5
37	MP2A	X	-5.988	1
38	MP2A	Z	10.372	1
39	MP2A	Mx	-.004	1
40	MP2A	X	-5.988	5
41	MP2A	Z	10.372	5
42	MP2A	Mx	-.004	5
43	MP2B	X	-4.757	1
44	MP2B	Z	8.24	1
45	MP2B	Mx	-.005	1
46	MP2B	X	-4.757	5
47	MP2B	Z	8.24	5
48	MP2B	Mx	-.005	5
49	MP2C	X	-5.988	1
50	MP2C	Z	10.372	1
51	MP2C	Mx	.01	1
52	MP2C	X	-5.988	5
53	MP2C	Z	10.372	5
54	MP2C	Mx	.01	5
55	MP2A	X	-2.224	1.5
56	MP2A	Z	3.852	1.5
57	MP2A	Mx	-.001	1.5
58	MP2B	X	-1.621	1.5
59	MP2B	Z	2.807	1.5
60	MP2B	Mx	.002	1.5
61	MP2C	X	-2.224	1.5
62	MP2C	Z	3.852	1.5
63	MP2C	Mx	-.001	1.5
64	MP1A	X	-2.187	1.5
65	MP1A	Z	3.788	1.5
66	MP1A	Mx	-.001	1.5
67	MP1B	X	-1.475	1.5
68	MP1B	Z	2.555	1.5
69	MP1B	Mx	.001	1.5
70	MP1C	X	-2.187	1.5
71	MP1C	Z	3.788	1.5

Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP1C	Mx	-.001	1.5
73	MP1A	X	-3.504	1
74	MP1A	Z	6.069	1
75	MP1A	Mx	.002	1
76	MP1A	X	-3.504	5
77	MP1A	Z	6.069	5
78	MP1A	Mx	.002	5
79	MP1B	X	-5.594	1
80	MP1B	Z	9.689	1
81	MP1B	Mx	-.006	1
82	MP1B	X	-5.594	5
83	MP1B	Z	9.689	5
84	MP1B	Mx	-.006	5
85	MP1C	X	-3.504	1
86	MP1C	Z	6.069	1
87	MP1C	Mx	.002	1
88	MP1C	X	-3.504	5
89	MP1C	Z	6.069	5
90	MP1C	Mx	.002	5
91	MP4A	X	-3.504	1
92	MP4A	Z	6.069	1
93	MP4A	Mx	.002	1
94	MP4A	X	-3.504	5
95	MP4A	Z	6.069	5
96	MP4A	Mx	.002	5
97	MP4B	X	-5.594	1
98	MP4B	Z	9.689	1
99	MP4B	Mx	-.006	1
100	MP4B	X	-5.594	5
101	MP4B	Z	9.689	5
102	MP4B	Mx	-.006	5
103	MP4C	X	-3.504	1
104	MP4C	Z	6.069	1
105	MP4C	Mx	.002	1
106	MP4C	X	-3.504	5
107	MP4C	Z	6.069	5
108	MP4C	Mx	.002	5

Member Point Loads (BLC 35 : Antenna Wm (240 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.869	2.38
2	MP3A	Z	1.656	2.38
3	MP3A	Mx	.001	2.38
4	MP3A	X	-2.869	3.63
5	MP3A	Z	1.656	3.63
6	MP3A	Mx	.001	3.63
7	MP3B	X	-2.869	2.38
8	MP3B	Z	1.656	2.38
9	MP3B	Mx	-.001	2.38
10	MP3B	X	-2.869	3.63
11	MP3B	Z	1.656	3.63
12	MP3B	Mx	-.001	3.63
13	MP3C	X	-5.278	2.38
14	MP3C	Z	3.047	2.38
15	MP3C	Mx	0	2.38
16	MP3C	X	-5.278	3.63

Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP3C	Z	3.047	3.63
18	MP3C	Mx	0	3.63
19	MP2A	X	-8.951	1
20	MP2A	Z	5.168	1
21	MP2A	Mx	.008	1
22	MP2A	X	-8.951	5
23	MP2A	Z	5.168	5
24	MP2A	Mx	.008	5
25	MP2B	X	-8.951	1
26	MP2B	Z	5.168	1
27	MP2B	Mx	-.001	1
28	MP2B	X	-8.951	5
29	MP2B	Z	5.168	5
30	MP2B	Mx	-.001	5
31	MP2C	X	-11.083	1
32	MP2C	Z	6.399	1
33	MP2C	Mx	-.009	1
34	MP2C	X	-11.083	5
35	MP2C	Z	6.399	5
36	MP2C	Mx	-.009	5
37	MP2A	X	-8.951	1
38	MP2A	Z	5.168	1
39	MP2A	Mx	.001	1
40	MP2A	X	-8.951	5
41	MP2A	Z	5.168	5
42	MP2A	Mx	.001	5
43	MP2B	X	-8.951	1
44	MP2B	Z	5.168	1
45	MP2B	Mx	-.008	1
46	MP2B	X	-8.951	5
47	MP2B	Z	5.168	5
48	MP2B	Mx	-.008	5
49	MP2C	X	-11.083	1
50	MP2C	Z	6.399	1
51	MP2C	Mx	.009	1
52	MP2C	X	-11.083	5
53	MP2C	Z	6.399	5
54	MP2C	Mx	.009	5
55	MP2A	X	-3.155	1.5
56	MP2A	Z	1.822	1.5
57	MP2A	Mx	-.002	1.5
58	MP2B	X	-3.155	1.5
59	MP2B	Z	1.822	1.5
60	MP2B	Mx	.002	1.5
61	MP2C	X	-4.2	1.5
62	MP2C	Z	2.425	1.5
63	MP2C	Mx	0	1.5
64	MP1A	X	-2.966	1.5
65	MP1A	Z	1.712	1.5
66	MP1A	Mx	-.001	1.5
67	MP1B	X	-2.966	1.5
68	MP1B	Z	1.712	1.5
69	MP1B	Mx	.001	1.5
70	MP1C	X	-4.2	1.5
71	MP1C	Z	2.425	1.5
72	MP1C	Mx	0	1.5
73	MP1A	X	-8.482	1

Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP1A	Z	4.897	1
75	MP1A	Mx	.004	1
76	MP1A	X	-8.482	5
77	MP1A	Z	4.897	5
78	MP1A	Mx	.004	5
79	MP1B	X	-8.482	1
80	MP1B	Z	4.897	1
81	MP1B	Mx	-.004	1
82	MP1B	X	-8.482	5
83	MP1B	Z	4.897	5
84	MP1B	Mx	-.004	5
85	MP1C	X	-4.862	1
86	MP1C	Z	2.807	1
87	MP1C	Mx	0	1
88	MP1C	X	-4.862	5
89	MP1C	Z	2.807	5
90	MP1C	Mx	0	5
91	MP4A	X	-8.482	1
92	MP4A	Z	4.897	1
93	MP4A	Mx	.004	1
94	MP4A	X	-8.482	5
95	MP4A	Z	4.897	5
96	MP4A	Mx	.004	5
97	MP4B	X	-8.482	1
98	MP4B	Z	4.897	1
99	MP4B	Mx	-.004	1
100	MP4B	X	-8.482	5
101	MP4B	Z	4.897	5
102	MP4B	Mx	-.004	5
103	MP4C	X	-4.862	1
104	MP4C	Z	2.807	1
105	MP4C	Mx	0	1
106	MP4C	X	-4.862	5
107	MP4C	Z	2.807	5
108	MP4C	Mx	0	5

Member Point Loads (BLC 36 : Antenna Wm (270 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.386	2.38
2	MP3A	Z	0	2.38
3	MP3A	Mx	.001	2.38
4	MP3A	X	-2.386	3.63
5	MP3A	Z	0	3.63
6	MP3A	Mx	.001	3.63
7	MP3B	X	-5.167	2.38
8	MP3B	Z	0	2.38
9	MP3B	Mx	-.001	2.38
10	MP3B	X	-5.167	3.63
11	MP3B	Z	0	3.63
12	MP3B	Mx	-.001	3.63
13	MP3C	X	-5.167	2.38
14	MP3C	Z	0	2.38
15	MP3C	Mx	-.001	2.38
16	MP3C	X	-5.167	3.63
17	MP3C	Z	0	3.63
18	MP3C	Mx	-.001	3.63

Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP2A	X	-9.514	1
20	MP2A	Z	0	1
21	MP2A	Mx	.005	1
22	MP2A	X	-9.514	5
23	MP2A	Z	0	5
24	MP2A	Mx	.005	5
25	MP2B	X	-11.977	1
26	MP2B	Z	0	1
27	MP2B	Mx	.004	1
28	MP2B	X	-11.977	5
29	MP2B	Z	0	5
30	MP2B	Mx	.004	5
31	MP2C	X	-11.977	1
32	MP2C	Z	0	1
33	MP2C	Mx	-.01	1
34	MP2C	X	-11.977	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.01	5
37	MP2A	X	-9.514	1
38	MP2A	Z	0	1
39	MP2A	Mx	.005	1
40	MP2A	X	-9.514	5
41	MP2A	Z	0	5
42	MP2A	Mx	.005	5
43	MP2B	X	-11.977	1
44	MP2B	Z	0	1
45	MP2B	Mx	-.01	1
46	MP2B	X	-11.977	5
47	MP2B	Z	0	5
48	MP2B	Mx	-.01	5
49	MP2C	X	-11.977	1
50	MP2C	Z	0	1
51	MP2C	Mx	.004	1
52	MP2C	X	-11.977	5
53	MP2C	Z	0	5
54	MP2C	Mx	.004	5
55	MP2A	X	-3.242	1.5
56	MP2A	Z	0	1.5
57	MP2A	Mx	-.002	1.5
58	MP2B	X	-4.447	1.5
59	MP2B	Z	0	1.5
60	MP2B	Mx	.001	1.5
61	MP2C	X	-4.447	1.5
62	MP2C	Z	0	1.5
63	MP2C	Mx	.001	1.5
64	MP1A	X	-2.95	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	-.001	1.5
67	MP1B	X	-4.374	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	.001	1.5
70	MP1C	X	-4.374	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	.001	1.5
73	MP1A	X	-11.188	1
74	MP1A	Z	0	1
75	MP1A	Mx	.006	1

Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
76	MP1A	X	-11.188	5
77	MP1A	Z	0	5
78	MP1A	Mx	.006	5
79	MP1B	X	-7.008	1
80	MP1B	Z	0	1
81	MP1B	Mx	-.002	1
82	MP1B	X	-7.008	5
83	MP1B	Z	0	5
84	MP1B	Mx	-.002	5
85	MP1C	X	-7.008	1
86	MP1C	Z	0	1
87	MP1C	Mx	-.002	1
88	MP1C	X	-7.008	5
89	MP1C	Z	0	5
90	MP1C	Mx	-.002	5
91	MP4A	X	-11.188	1
92	MP4A	Z	0	1
93	MP4A	Mx	.006	1
94	MP4A	X	-11.188	5
95	MP4A	Z	0	5
96	MP4A	Mx	.006	5
97	MP4B	X	-7.008	1
98	MP4B	Z	0	1
99	MP4B	Mx	-.002	1
100	MP4B	X	-7.008	5
101	MP4B	Z	0	5
102	MP4B	Mx	-.002	5
103	MP4C	X	-7.008	1
104	MP4C	Z	0	1
105	MP4C	Mx	-.002	1
106	MP4C	X	-7.008	5
107	MP4C	Z	0	5
108	MP4C	Mx	-.002	5

Member Point Loads (BLC 37 : Antenna Wm (300 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.869	2.38
2	MP3A	Z	-1.656	2.38
3	MP3A	Mx	.001	2.38
4	MP3A	X	-2.869	3.63
5	MP3A	Z	-1.656	3.63
6	MP3A	Mx	.001	3.63
7	MP3B	X	-5.278	2.38
8	MP3B	Z	-3.047	2.38
9	MP3B	Mx	0	2.38
10	MP3B	X	-5.278	3.63
11	MP3B	Z	-3.047	3.63
12	MP3B	Mx	0	3.63
13	MP3C	X	-2.869	2.38
14	MP3C	Z	-1.656	2.38
15	MP3C	Mx	-.001	2.38
16	MP3C	X	-2.869	3.63
17	MP3C	Z	-1.656	3.63
18	MP3C	Mx	-.001	3.63
19	MP2A	X	-8.951	1
20	MP2A	Z	-5.168	1

Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	.001	1
22	MP2A	X	-8.951	5
23	MP2A	Z	-5.168	5
24	MP2A	Mx	.001	5
25	MP2B	X	-11.083	1
26	MP2B	Z	-6.399	1
27	MP2B	Mx	.009	1
28	MP2B	X	-11.083	5
29	MP2B	Z	-6.399	5
30	MP2B	Mx	.009	5
31	MP2C	X	-8.951	1
32	MP2C	Z	-5.168	1
33	MP2C	Mx	-.008	1
34	MP2C	X	-8.951	5
35	MP2C	Z	-5.168	5
36	MP2C	Mx	-.008	5
37	MP2A	X	-8.951	1
38	MP2A	Z	-5.168	1
39	MP2A	Mx	.008	1
40	MP2A	X	-8.951	5
41	MP2A	Z	-5.168	5
42	MP2A	Mx	.008	5
43	MP2B	X	-11.083	1
44	MP2B	Z	-6.399	1
45	MP2B	Mx	-.009	1
46	MP2B	X	-11.083	5
47	MP2B	Z	-6.399	5
48	MP2B	Mx	-.009	5
49	MP2C	X	-8.951	1
50	MP2C	Z	-5.168	1
51	MP2C	Mx	-.001	1
52	MP2C	X	-8.951	5
53	MP2C	Z	-5.168	5
54	MP2C	Mx	-.001	5
55	MP2A	X	-3.155	1.5
56	MP2A	Z	-1.822	1.5
57	MP2A	Mx	-.002	1.5
58	MP2B	X	-4.2	1.5
59	MP2B	Z	-2.425	1.5
60	MP2B	Mx	0	1.5
61	MP2C	X	-3.155	1.5
62	MP2C	Z	-1.822	1.5
63	MP2C	Mx	.002	1.5
64	MP1A	X	-2.966	1.5
65	MP1A	Z	-1.712	1.5
66	MP1A	Mx	-.001	1.5
67	MP1B	X	-4.2	1.5
68	MP1B	Z	-2.425	1.5
69	MP1B	Mx	0	1.5
70	MP1C	X	-2.966	1.5
71	MP1C	Z	-1.712	1.5
72	MP1C	Mx	.001	1.5
73	MP1A	X	-8.482	1
74	MP1A	Z	-4.897	1
75	MP1A	Mx	.004	1
76	MP1A	X	-8.482	5
77	MP1A	Z	-4.897	5

Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP1A	Mx	.004	5
79	MP1B	X	-4.862	1
80	MP1B	Z	-2.807	1
81	MP1B	Mx	0	1
82	MP1B	X	-4.862	5
83	MP1B	Z	-2.807	5
84	MP1B	Mx	0	5
85	MP1C	X	-8.482	1
86	MP1C	Z	-4.897	1
87	MP1C	Mx	-.004	1
88	MP1C	X	-8.482	5
89	MP1C	Z	-4.897	5
90	MP1C	Mx	-.004	5
91	MP4A	X	-8.482	1
92	MP4A	Z	-4.897	1
93	MP4A	Mx	.004	1
94	MP4A	X	-8.482	5
95	MP4A	Z	-4.897	5
96	MP4A	Mx	.004	5
97	MP4B	X	-4.862	1
98	MP4B	Z	-2.807	1
99	MP4B	Mx	0	1
100	MP4B	X	-4.862	5
101	MP4B	Z	-2.807	5
102	MP4B	Mx	0	5
103	MP4C	X	-8.482	1
104	MP4C	Z	-4.897	1
105	MP4C	Mx	-.004	1
106	MP4C	X	-8.482	5
107	MP4C	Z	-4.897	5
108	MP4C	Mx	-.004	5

Member Point Loads (BLC 38 : Antenna Wm (330 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.583	2.38
2	MP3A	Z	-4.475	2.38
3	MP3A	Mx	.001	2.38
4	MP3A	X	-2.583	3.63
5	MP3A	Z	-4.475	3.63
6	MP3A	Mx	.001	3.63
7	MP3B	X	-2.583	2.38
8	MP3B	Z	-4.475	2.38
9	MP3B	Mx	.001	2.38
10	MP3B	X	-2.583	3.63
11	MP3B	Z	-4.475	3.63
12	MP3B	Mx	.001	3.63
13	MP3C	X	-1.193	2.38
14	MP3C	Z	-2.066	2.38
15	MP3C	Mx	-.001	2.38
16	MP3C	X	-1.193	3.63
17	MP3C	Z	-2.066	3.63
18	MP3C	Mx	-.001	3.63
19	MP2A	X	-5.988	1
20	MP2A	Z	-10.372	1
21	MP2A	Mx	-.004	1
22	MP2A	X	-5.988	5

Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2A	Z	-10.372	5
24	MP2A	Mx	-.004	5
25	MP2B	X	-5.988	1
26	MP2B	Z	-10.372	1
27	MP2B	Mx	.01	1
28	MP2B	X	-5.988	5
29	MP2B	Z	-10.372	5
30	MP2B	Mx	.01	5
31	MP2C	X	-4.757	1
32	MP2C	Z	-8.24	1
33	MP2C	Mx	-.005	1
34	MP2C	X	-4.757	5
35	MP2C	Z	-8.24	5
36	MP2C	Mx	-.005	5
37	MP2A	X	-5.988	1
38	MP2A	Z	-10.372	1
39	MP2A	Mx	.01	1
40	MP2A	X	-5.988	5
41	MP2A	Z	-10.372	5
42	MP2A	Mx	.01	5
43	MP2B	X	-5.988	1
44	MP2B	Z	-10.372	1
45	MP2B	Mx	-.004	1
46	MP2B	X	-5.988	5
47	MP2B	Z	-10.372	5
48	MP2B	Mx	-.004	5
49	MP2C	X	-4.757	1
50	MP2C	Z	-8.24	1
51	MP2C	Mx	-.005	1
52	MP2C	X	-4.757	5
53	MP2C	Z	-8.24	5
54	MP2C	Mx	-.005	5
55	MP2A	X	-2.224	1.5
56	MP2A	Z	-3.852	1.5
57	MP2A	Mx	-.001	1.5
58	MP2B	X	-2.224	1.5
59	MP2B	Z	-3.852	1.5
60	MP2B	Mx	-.001	1.5
61	MP2C	X	-1.621	1.5
62	MP2C	Z	-2.807	1.5
63	MP2C	Mx	.002	1.5
64	MP1A	X	-2.187	1.5
65	MP1A	Z	-3.788	1.5
66	MP1A	Mx	-.001	1.5
67	MP1B	X	-2.187	1.5
68	MP1B	Z	-3.788	1.5
69	MP1B	Mx	-.001	1.5
70	MP1C	X	-1.475	1.5
71	MP1C	Z	-2.555	1.5
72	MP1C	Mx	.001	1.5
73	MP1A	X	-3.504	1
74	MP1A	Z	-6.069	1
75	MP1A	Mx	.002	1
76	MP1A	X	-3.504	5
77	MP1A	Z	-6.069	5
78	MP1A	Mx	.002	5
79	MP1B	X	-3.504	1

Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP1B	Z	-6.069	1
81	MP1B	Mx	.002	1
82	MP1B	X	-3.504	5
83	MP1B	Z	-6.069	5
84	MP1B	Mx	.002	5
85	MP1C	X	-5.594	1
86	MP1C	Z	-9.689	1
87	MP1C	Mx	-.006	1
88	MP1C	X	-5.594	5
89	MP1C	Z	-9.689	5
90	MP1C	Mx	-.006	5
91	MP4A	X	-3.504	1
92	MP4A	Z	-6.069	1
93	MP4A	Mx	.002	1
94	MP4A	X	-3.504	5
95	MP4A	Z	-6.069	5
96	MP4A	Mx	.002	5
97	MP4B	X	-3.504	1
98	MP4B	Z	-6.069	1
99	MP4B	Mx	.002	1
100	MP4B	X	-3.504	5
101	MP4B	Z	-6.069	5
102	MP4B	Mx	.002	5
103	MP4C	X	-5.594	1
104	MP4C	Z	-9.689	1
105	MP4C	Mx	-.006	1
106	MP4C	X	-5.594	5
107	MP4C	Z	-9.689	5
108	MP4C	Mx	-.006	5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	LIVE2	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M19	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	FACE	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	FACE	Y	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	Y	-6.493	-6.493	0	%100
2	M4	Y	-9.508	-9.508	0	%100
3	M10	Y	-9.508	-9.508	0	%100
4	MP3A	Y	-4.92	-4.92	0	%100
5	MP4A	Y	-4.92	-4.92	0	%100

Member Distributed Loads (BLC 40 : Structure Di) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
6	MP2A	Y	-5.619	-5.619	0	%100
7	MP1A	Y	-4.92	-4.92	0	%100
8	M43	Y	-9.508	-9.508	0	%100
9	M46	Y	-10.017	-10.017	0	%100
10	M51B	Y	-5.554	-5.554	0	%100
11	M52B	Y	-5.554	-5.554	0	%100
12	M76	Y	-10.004	-10.004	0	%100
13	M77	Y	-10.004	-10.004	0	%100
14	M80	Y	-10.017	-10.017	0	%100
15	M84	Y	-10.004	-10.004	0	%100
16	M85	Y	-10.004	-10.004	0	%100
17	M91	Y	-10.017	-10.017	0	%100
18	M52A	Y	-9.508	-9.508	0	%100
19	M53	Y	-9.508	-9.508	0	%100
20	M54	Y	-9.508	-9.508	0	%100
21	M55	Y	-10.017	-10.017	0	%100
22	M58A	Y	-5.554	-5.554	0	%100
23	M59A	Y	-5.554	-5.554	0	%100
24	M63	Y	-10.004	-10.004	0	%100
25	M64	Y	-10.004	-10.004	0	%100
26	M66	Y	-10.017	-10.017	0	%100
27	M68	Y	-10.004	-10.004	0	%100
28	M69	Y	-10.004	-10.004	0	%100
29	M71	Y	-10.017	-10.017	0	%100
30	M76A	Y	-9.508	-9.508	0	%100
31	M77A	Y	-9.508	-9.508	0	%100
32	M78	Y	-9.508	-9.508	0	%100
33	M79A	Y	-10.017	-10.017	0	%100
34	M82	Y	-5.554	-5.554	0	%100
35	M83A	Y	-5.554	-5.554	0	%100
36	M87	Y	-10.004	-10.004	0	%100
37	M88A	Y	-10.004	-10.004	0	%100
38	M90	Y	-10.017	-10.017	0	%100
39	M92A	Y	-10.004	-10.004	0	%100
40	M93	Y	-10.004	-10.004	0	%100
41	M95	Y	-10.017	-10.017	0	%100
42	M82A	Y	-6.493	-6.493	0	%100
43	MP3C	Y	-4.92	-4.92	0	%100
44	MP4C	Y	-4.92	-4.92	0	%100
45	MP2C	Y	-5.619	-5.619	0	%100
46	MP1C	Y	-4.92	-4.92	0	%100
47	M91B	Y	-6.493	-6.493	0	%100
48	MP3B	Y	-4.92	-4.92	0	%100
49	MP4B	Y	-4.92	-4.92	0	%100
50	MP2B	Y	-5.619	-5.619	0	%100
51	MP1B	Y	-4.92	-4.92	0	%100
52	M104	Y	-5.619	-5.619	0	%100
53	M109	Y	-5.619	-5.619	0	%100
54	M114	Y	-5.619	-5.619	0	%100
55	M121	Y	-7.531	-7.531	0	%100
56	M122	Y	-7.531	-7.531	0	%100
57	M123	Y	-7.531	-7.531	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
2	FACE	Z	-14.339	-14.339	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-12.9	-12.9	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-10.185	-10.185	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-10.185	-10.185	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-12.33	-12.33	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-10.185	-10.185	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-12.9	-12.9	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-25.732	-25.732	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-3.572	-3.572	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-3.572	-3.572	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	-6.552	-6.552	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	-6.901	-6.901	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	-6.552	-6.552	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	-6.901	-6.901	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	-11.434	-11.434	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	-3.225	-3.225	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	-3.225	-3.225	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	-6.433	-6.433	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	-3.572	-3.572	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	-14.288	-14.288	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	-19.299	-19.299	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	-6.552	-6.552	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	-6.901	-6.901	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	-19.299	-19.299	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	-26.208	-26.208	0	%100
57	M71	X	0	0	0	%100
58	M71	Z	-27.604	-27.604	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
59	M76A	X	0	0	0	%100
60	M76A	Z	-11.434	-11.434	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	-3.225	-3.225	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	-3.225	-3.225	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	-6.433	-6.433	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	-14.288	-14.288	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	-3.572	-3.572	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	-19.299	-19.299	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	-26.208	-26.208	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	-27.604	-27.604	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	-19.299	-19.299	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	-6.552	-6.552	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	-6.901	-6.901	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	-3.585	-3.585	0	%100
85	MP3C	X	0	0	0	%100
86	MP3C	Z	-10.185	-10.185	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C	Z	-10.185	-10.185	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	-12.33	-12.33	0	%100
91	MP1C	X	0	0	0	%100
92	MP1C	Z	-10.185	-10.185	0	%100
93	M91B	X	0	0	0	%100
94	M91B	Z	-3.585	-3.585	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	-10.185	-10.185	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	-10.185	-10.185	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-12.33	-12.33	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-10.185	-10.185	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	-12.33	-12.33	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	-3.082	-3.082	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	-3.082	-3.082	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	-3.543	-3.543	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	-14.174	-14.174	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	-3.543	-3.543	0	%100

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	5.377	5.377	0	%100
2	FACE	Z	-9.313	-9.313	0	%100
3	M4	X	1.906	1.906	0	%100
4	M4	Z	-3.301	-3.301	0	%100
5	M10	X	4.838	4.838	0	%100
6	M10	Z	-8.379	-8.379	0	%100
7	MP3A	X	5.093	5.093	0	%100
8	MP3A	Z	-8.821	-8.821	0	%100
9	MP4A	X	5.093	5.093	0	%100
10	MP4A	Z	-8.821	-8.821	0	%100
11	MP2A	X	6.165	6.165	0	%100
12	MP2A	Z	-10.678	-10.678	0	%100
13	MP1A	X	5.093	5.093	0	%100
14	MP1A	Z	-8.821	-8.821	0	%100
15	M43	X	4.838	4.838	0	%100
16	M43	Z	-8.379	-8.379	0	%100
17	M46	X	9.649	9.649	0	%100
18	M46	Z	-16.713	-16.713	0	%100
19	M51B	X	5.358	5.358	0	%100
20	M51B	Z	-9.28	-9.28	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	3.216	3.216	0	%100
24	M76	Z	-5.571	-5.571	0	%100
25	M77	X	9.828	9.828	0	%100
26	M77	Z	-17.023	-17.023	0	%100
27	M80	X	10.352	10.352	0	%100
28	M80	Z	-17.93	-17.93	0	%100
29	M84	X	3.216	3.216	0	%100
30	M84	Z	-5.571	-5.571	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	1.906	1.906	0	%100
36	M52A	Z	-3.301	-3.301	0	%100
37	M53	X	4.838	4.838	0	%100
38	M53	Z	-8.379	-8.379	0	%100
39	M54	X	4.838	4.838	0	%100
40	M54	Z	-8.379	-8.379	0	%100
41	M55	X	9.649	9.649	0	%100
42	M55	Z	-16.713	-16.713	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	5.358	5.358	0	%100
46	M59A	Z	-9.28	-9.28	0	%100
47	M63	X	3.216	3.216	0	%100
48	M63	Z	-5.571	-5.571	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	3.216	3.216	0	%100
54	M68	Z	-5.571	-5.571	0	%100
55	M69	X	9.828	9.828	0	%100
56	M69	Z	-17.023	-17.023	0	%100
57	M71	X	10.352	10.352	0	%100

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-17.93	-17.93	0	%100
59	M76A	X	7.623	7.623	0	%100
60	M76A	Z	-13.203	-13.203	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	5.358	5.358	0	%100
68	M82	Z	-9.28	-9.28	0	%100
69	M83A	X	5.358	5.358	0	%100
70	M83A	Z	-9.28	-9.28	0	%100
71	M87	X	12.866	12.866	0	%100
72	M87	Z	-22.284	-22.284	0	%100
73	M88A	X	9.828	9.828	0	%100
74	M88A	Z	-17.023	-17.023	0	%100
75	M90	X	10.352	10.352	0	%100
76	M90	Z	-17.93	-17.93	0	%100
77	M92A	X	12.866	12.866	0	%100
78	M92A	Z	-22.284	-22.284	0	%100
79	M93	X	9.828	9.828	0	%100
80	M93	Z	-17.023	-17.023	0	%100
81	M95	X	10.352	10.352	0	%100
82	M95	Z	-17.93	-17.93	0	%100
83	M82A	X	5.377	5.377	0	%100
84	M82A	Z	-9.313	-9.313	0	%100
85	MP3C	X	5.093	5.093	0	%100
86	MP3C	Z	-8.821	-8.821	0	%100
87	MP4C	X	5.093	5.093	0	%100
88	MP4C	Z	-8.821	-8.821	0	%100
89	MP2C	X	6.165	6.165	0	%100
90	MP2C	Z	-10.678	-10.678	0	%100
91	MP1C	X	5.093	5.093	0	%100
92	MP1C	Z	-8.821	-8.821	0	%100
93	M91B	X	0	0	0	%100
94	M91B	Z	0	0	0	%100
95	MP3B	X	5.093	5.093	0	%100
96	MP3B	Z	-8.821	-8.821	0	%100
97	MP4B	X	5.093	5.093	0	%100
98	MP4B	Z	-8.821	-8.821	0	%100
99	MP2B	X	6.165	6.165	0	%100
100	MP2B	Z	-10.678	-10.678	0	%100
101	MP1B	X	5.093	5.093	0	%100
102	MP1B	Z	-8.821	-8.821	0	%100
103	M104	X	4.624	4.624	0	%100
104	M104	Z	-8.008	-8.008	0	%100
105	M109	X	4.624	4.624	0	%100
106	M109	Z	-8.008	-8.008	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	5.315	5.315	0	%100
110	M121	Z	-9.206	-9.206	0	%100
111	M122	X	5.315	5.315	0	%100
112	M122	Z	-9.206	-9.206	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	3.104	3.104	0	%100
2	FACE	Z	-1.792	-1.792	0	%100
3	M4	X	9.902	9.902	0	%100
4	M4	Z	-5.717	-5.717	0	%100
5	M10	X	2.793	2.793	0	%100
6	M10	Z	-1.613	-1.613	0	%100
7	MP3A	X	8.821	8.821	0	%100
8	MP3A	Z	-5.093	-5.093	0	%100
9	MP4A	X	8.821	8.821	0	%100
10	MP4A	Z	-5.093	-5.093	0	%100
11	MP2A	X	10.678	10.678	0	%100
12	MP2A	Z	-6.165	-6.165	0	%100
13	MP1A	X	8.821	8.821	0	%100
14	MP1A	Z	-5.093	-5.093	0	%100
15	M43	X	2.793	2.793	0	%100
16	M43	Z	-1.613	-1.613	0	%100
17	M46	X	5.571	5.571	0	%100
18	M46	Z	-3.216	-3.216	0	%100
19	M51B	X	12.374	12.374	0	%100
20	M51B	Z	-7.144	-7.144	0	%100
21	M52B	X	3.093	3.093	0	%100
22	M52B	Z	-1.786	-1.786	0	%100
23	M76	X	16.713	16.713	0	%100
24	M76	Z	-9.649	-9.649	0	%100
25	M77	X	22.697	22.697	0	%100
26	M77	Z	-13.104	-13.104	0	%100
27	M80	X	23.906	23.906	0	%100
28	M80	Z	-13.802	-13.802	0	%100
29	M84	X	16.713	16.713	0	%100
30	M84	Z	-9.649	-9.649	0	%100
31	M85	X	5.674	5.674	0	%100
32	M85	Z	-3.276	-3.276	0	%100
33	M91	X	5.977	5.977	0	%100
34	M91	Z	-3.451	-3.451	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	11.172	11.172	0	%100
38	M53	Z	-6.45	-6.45	0	%100
39	M54	X	11.172	11.172	0	%100
40	M54	Z	-6.45	-6.45	0	%100
41	M55	X	22.284	22.284	0	%100
42	M55	Z	-12.866	-12.866	0	%100
43	M58A	X	3.093	3.093	0	%100
44	M58A	Z	-1.786	-1.786	0	%100
45	M59A	X	3.093	3.093	0	%100
46	M59A	Z	-1.786	-1.786	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	5.674	5.674	0	%100
50	M64	Z	-3.276	-3.276	0	%100
51	M66	X	5.977	5.977	0	%100
52	M66	Z	-3.451	-3.451	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	5.674	5.674	0	%100
56	M69	Z	-3.276	-3.276	0	%100
57	M71	X	5.977	5.977	0	%100

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-3.451	-3.451	0	%100
59	M76A	X	9.902	9.902	0	%100
60	M76A	Z	-5.717	-5.717	0	%100
61	M77A	X	2.793	2.793	0	%100
62	M77A	Z	-1.613	-1.613	0	%100
63	M78	X	2.793	2.793	0	%100
64	M78	Z	-1.613	-1.613	0	%100
65	M79A	X	5.571	5.571	0	%100
66	M79A	Z	-3.216	-3.216	0	%100
67	M82	X	3.093	3.093	0	%100
68	M82	Z	-1.786	-1.786	0	%100
69	M83A	X	12.374	12.374	0	%100
70	M83A	Z	-7.144	-7.144	0	%100
71	M87	X	16.713	16.713	0	%100
72	M87	Z	-9.649	-9.649	0	%100
73	M88A	X	5.674	5.674	0	%100
74	M88A	Z	-3.276	-3.276	0	%100
75	M90	X	5.977	5.977	0	%100
76	M90	Z	-3.451	-3.451	0	%100
77	M92A	X	16.713	16.713	0	%100
78	M92A	Z	-9.649	-9.649	0	%100
79	M93	X	22.697	22.697	0	%100
80	M93	Z	-13.104	-13.104	0	%100
81	M95	X	23.906	23.906	0	%100
82	M95	Z	-13.802	-13.802	0	%100
83	M82A	X	12.418	12.418	0	%100
84	M82A	Z	-7.169	-7.169	0	%100
85	MP3C	X	8.821	8.821	0	%100
86	MP3C	Z	-5.093	-5.093	0	%100
87	MP4C	X	8.821	8.821	0	%100
88	MP4C	Z	-5.093	-5.093	0	%100
89	MP2C	X	10.678	10.678	0	%100
90	MP2C	Z	-6.165	-6.165	0	%100
91	MP1C	X	8.821	8.821	0	%100
92	MP1C	Z	-5.093	-5.093	0	%100
93	M91B	X	3.104	3.104	0	%100
94	M91B	Z	-1.792	-1.792	0	%100
95	MP3B	X	8.821	8.821	0	%100
96	MP3B	Z	-5.093	-5.093	0	%100
97	MP4B	X	8.821	8.821	0	%100
98	MP4B	Z	-5.093	-5.093	0	%100
99	MP2B	X	10.678	10.678	0	%100
100	MP2B	Z	-6.165	-6.165	0	%100
101	MP1B	X	8.821	8.821	0	%100
102	MP1B	Z	-5.093	-5.093	0	%100
103	M104	X	2.669	2.669	0	%100
104	M104	Z	-1.541	-1.541	0	%100
105	M109	X	10.678	10.678	0	%100
106	M109	Z	-6.165	-6.165	0	%100
107	M114	X	2.669	2.669	0	%100
108	M114	Z	-1.541	-1.541	0	%100
109	M121	X	12.275	12.275	0	%100
110	M121	Z	-7.087	-7.087	0	%100
111	M122	X	3.069	3.069	0	%100
112	M122	Z	-1.772	-1.772	0	%100
113	M123	X	3.069	3.069	0	%100
114	M123	Z	-1.772	-1.772	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M4	X	15.246	15.246	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	10.185	10.185	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	10.185	10.185	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	12.33	12.33	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	10.185	10.185	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	10.716	10.716	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	10.716	10.716	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	25.732	25.732	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	19.656	19.656	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	20.703	20.703	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	25.732	25.732	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	19.656	19.656	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	20.703	20.703	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	3.811	3.811	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	9.675	9.675	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	9.675	9.675	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	19.299	19.299	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	10.716	10.716	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	6.433	6.433	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	19.656	19.656	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	20.703	20.703	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	6.433	6.433	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	0	0	0	%100
59	M76A	X	3.811	3.811	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	9.675	9.675	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	9.675	9.675	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	19.299	19.299	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	10.716	10.716	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	6.433	6.433	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	6.433	6.433	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	19.656	19.656	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	20.703	20.703	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	10.754	10.754	0	%100
84	M82A	Z	0	0	0	%100
85	MP3C	X	10.185	10.185	0	%100
86	MP3C	Z	0	0	0	%100
87	MP4C	X	10.185	10.185	0	%100
88	MP4C	Z	0	0	0	%100
89	MP2C	X	12.33	12.33	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	10.185	10.185	0	%100
92	MP1C	Z	0	0	0	%100
93	M91B	X	10.754	10.754	0	%100
94	M91B	Z	0	0	0	%100
95	MP3B	X	10.185	10.185	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	10.185	10.185	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	12.33	12.33	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	10.185	10.185	0	%100
102	MP1B	Z	0	0	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	0	0	0	%100
105	M109	X	9.247	9.247	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	9.247	9.247	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	10.63	10.63	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	10.63	10.63	0	%100
114	M123	Z	0	0	0	%100

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	3.104	3.104	0	%100
2	FACE	Z	1.792	1.792	0	%100
3	M4	X	9.902	9.902	0	%100
4	M4	Z	5.717	5.717	0	%100
5	M10	X	2.793	2.793	0	%100
6	M10	Z	1.613	1.613	0	%100
7	MP3A	X	8.821	8.821	0	%100
8	MP3A	Z	5.093	5.093	0	%100
9	MP4A	X	8.821	8.821	0	%100
10	MP4A	Z	5.093	5.093	0	%100
11	MP2A	X	10.678	10.678	0	%100
12	MP2A	Z	6.165	6.165	0	%100
13	MP1A	X	8.821	8.821	0	%100
14	MP1A	Z	5.093	5.093	0	%100
15	M43	X	2.793	2.793	0	%100
16	M43	Z	1.613	1.613	0	%100
17	M46	X	5.571	5.571	0	%100
18	M46	Z	3.216	3.216	0	%100
19	M51B	X	3.093	3.093	0	%100
20	M51B	Z	1.786	1.786	0	%100
21	M52B	X	12.374	12.374	0	%100
22	M52B	Z	7.144	7.144	0	%100
23	M76	X	16.713	16.713	0	%100
24	M76	Z	9.649	9.649	0	%100
25	M77	X	5.674	5.674	0	%100
26	M77	Z	3.276	3.276	0	%100
27	M80	X	5.977	5.977	0	%100
28	M80	Z	3.451	3.451	0	%100
29	M84	X	16.713	16.713	0	%100
30	M84	Z	9.649	9.649	0	%100
31	M85	X	22.697	22.697	0	%100
32	M85	Z	13.104	13.104	0	%100
33	M91	X	23.906	23.906	0	%100
34	M91	Z	13.802	13.802	0	%100
35	M52A	X	9.902	9.902	0	%100
36	M52A	Z	5.717	5.717	0	%100
37	M53	X	2.793	2.793	0	%100
38	M53	Z	1.613	1.613	0	%100
39	M54	X	2.793	2.793	0	%100
40	M54	Z	1.613	1.613	0	%100
41	M55	X	5.571	5.571	0	%100
42	M55	Z	3.216	3.216	0	%100
43	M58A	X	12.374	12.374	0	%100
44	M58A	Z	7.144	7.144	0	%100
45	M59A	X	3.093	3.093	0	%100
46	M59A	Z	1.786	1.786	0	%100
47	M63	X	16.713	16.713	0	%100
48	M63	Z	9.649	9.649	0	%100
49	M64	X	22.697	22.697	0	%100
50	M64	Z	13.104	13.104	0	%100
51	M66	X	23.906	23.906	0	%100
52	M66	Z	13.802	13.802	0	%100
53	M68	X	16.713	16.713	0	%100
54	M68	Z	9.649	9.649	0	%100
55	M69	X	5.674	5.674	0	%100
56	M69	Z	3.276	3.276	0	%100
57	M71	X	5.977	5.977	0	%100

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	3.451	3.451	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	11.172	11.172	0	%100
62	M77A	Z	6.45	6.45	0	%100
63	M78	X	11.172	11.172	0	%100
64	M78	Z	6.45	6.45	0	%100
65	M79A	X	22.284	22.284	0	%100
66	M79A	Z	12.866	12.866	0	%100
67	M82	X	3.093	3.093	0	%100
68	M82	Z	1.786	1.786	0	%100
69	M83A	X	3.093	3.093	0	%100
70	M83A	Z	1.786	1.786	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	5.674	5.674	0	%100
74	M88A	Z	3.276	3.276	0	%100
75	M90	X	5.977	5.977	0	%100
76	M90	Z	3.451	3.451	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	5.674	5.674	0	%100
80	M93	Z	3.276	3.276	0	%100
81	M95	X	5.977	5.977	0	%100
82	M95	Z	3.451	3.451	0	%100
83	M82A	X	3.104	3.104	0	%100
84	M82A	Z	1.792	1.792	0	%100
85	MP3C	X	8.821	8.821	0	%100
86	MP3C	Z	5.093	5.093	0	%100
87	MP4C	X	8.821	8.821	0	%100
88	MP4C	Z	5.093	5.093	0	%100
89	MP2C	X	10.678	10.678	0	%100
90	MP2C	Z	6.165	6.165	0	%100
91	MP1C	X	8.821	8.821	0	%100
92	MP1C	Z	5.093	5.093	0	%100
93	M91B	X	12.418	12.418	0	%100
94	M91B	Z	7.169	7.169	0	%100
95	MP3B	X	8.821	8.821	0	%100
96	MP3B	Z	5.093	5.093	0	%100
97	MP4B	X	8.821	8.821	0	%100
98	MP4B	Z	5.093	5.093	0	%100
99	MP2B	X	10.678	10.678	0	%100
100	MP2B	Z	6.165	6.165	0	%100
101	MP1B	X	8.821	8.821	0	%100
102	MP1B	Z	5.093	5.093	0	%100
103	M104	X	2.669	2.669	0	%100
104	M104	Z	1.541	1.541	0	%100
105	M109	X	2.669	2.669	0	%100
106	M109	Z	1.541	1.541	0	%100
107	M114	X	10.678	10.678	0	%100
108	M114	Z	6.165	6.165	0	%100
109	M121	X	3.069	3.069	0	%100
110	M121	Z	1.772	1.772	0	%100
111	M122	X	3.069	3.069	0	%100
112	M122	Z	1.772	1.772	0	%100
113	M123	X	12.275	12.275	0	%100
114	M123	Z	7.087	7.087	0	%100

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	5.377	5.377	0	%100
2	FACE	Z	9.313	9.313	0	%100
3	M4	X	1.906	1.906	0	%100
4	M4	Z	3.301	3.301	0	%100
5	M10	X	4.838	4.838	0	%100
6	M10	Z	8.379	8.379	0	%100
7	MP3A	X	5.093	5.093	0	%100
8	MP3A	Z	8.821	8.821	0	%100
9	MP4A	X	5.093	5.093	0	%100
10	MP4A	Z	8.821	8.821	0	%100
11	MP2A	X	6.165	6.165	0	%100
12	MP2A	Z	10.678	10.678	0	%100
13	MP1A	X	5.093	5.093	0	%100
14	MP1A	Z	8.821	8.821	0	%100
15	M43	X	4.838	4.838	0	%100
16	M43	Z	8.379	8.379	0	%100
17	M46	X	9.649	9.649	0	%100
18	M46	Z	16.713	16.713	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	5.358	5.358	0	%100
22	M52B	Z	9.28	9.28	0	%100
23	M76	X	3.216	3.216	0	%100
24	M76	Z	5.571	5.571	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	3.216	3.216	0	%100
30	M84	Z	5.571	5.571	0	%100
31	M85	X	9.828	9.828	0	%100
32	M85	Z	17.023	17.023	0	%100
33	M91	X	10.352	10.352	0	%100
34	M91	Z	17.93	17.93	0	%100
35	M52A	X	7.623	7.623	0	%100
36	M52A	Z	13.203	13.203	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	5.358	5.358	0	%100
44	M58A	Z	9.28	9.28	0	%100
45	M59A	X	5.358	5.358	0	%100
46	M59A	Z	9.28	9.28	0	%100
47	M63	X	12.866	12.866	0	%100
48	M63	Z	22.284	22.284	0	%100
49	M64	X	9.828	9.828	0	%100
50	M64	Z	17.023	17.023	0	%100
51	M66	X	10.352	10.352	0	%100
52	M66	Z	17.93	17.93	0	%100
53	M68	X	12.866	12.866	0	%100
54	M68	Z	22.284	22.284	0	%100
55	M69	X	9.828	9.828	0	%100
56	M69	Z	17.023	17.023	0	%100
57	M71	X	10.352	10.352	0	%100

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	17.93	17.93	0	%100
59	M76A	X	1.906	1.906	0	%100
60	M76A	Z	3.301	3.301	0	%100
61	M77A	X	4.838	4.838	0	%100
62	M77A	Z	8.379	8.379	0	%100
63	M78	X	4.838	4.838	0	%100
64	M78	Z	8.379	8.379	0	%100
65	M79A	X	9.649	9.649	0	%100
66	M79A	Z	16.713	16.713	0	%100
67	M82	X	5.358	5.358	0	%100
68	M82	Z	9.28	9.28	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	3.216	3.216	0	%100
72	M87	Z	5.571	5.571	0	%100
73	M88A	X	9.828	9.828	0	%100
74	M88A	Z	17.023	17.023	0	%100
75	M90	X	10.352	10.352	0	%100
76	M90	Z	17.93	17.93	0	%100
77	M92A	X	3.216	3.216	0	%100
78	M92A	Z	5.571	5.571	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	MP3C	X	5.093	5.093	0	%100
86	MP3C	Z	8.821	8.821	0	%100
87	MP4C	X	5.093	5.093	0	%100
88	MP4C	Z	8.821	8.821	0	%100
89	MP2C	X	6.165	6.165	0	%100
90	MP2C	Z	10.678	10.678	0	%100
91	MP1C	X	5.093	5.093	0	%100
92	MP1C	Z	8.821	8.821	0	%100
93	M91B	X	5.377	5.377	0	%100
94	M91B	Z	9.313	9.313	0	%100
95	MP3B	X	5.093	5.093	0	%100
96	MP3B	Z	8.821	8.821	0	%100
97	MP4B	X	5.093	5.093	0	%100
98	MP4B	Z	8.821	8.821	0	%100
99	MP2B	X	6.165	6.165	0	%100
100	MP2B	Z	10.678	10.678	0	%100
101	MP1B	X	5.093	5.093	0	%100
102	MP1B	Z	8.821	8.821	0	%100
103	M104	X	4.624	4.624	0	%100
104	M104	Z	8.008	8.008	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	4.624	4.624	0	%100
108	M114	Z	8.008	8.008	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	5.315	5.315	0	%100
112	M122	Z	9.206	9.206	0	%100
113	M123	X	5.315	5.315	0	%100
114	M123	Z	9.206	9.206	0	%100

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	14.339	14.339	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	12.9	12.9	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	10.185	10.185	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	10.185	10.185	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	12.33	12.33	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	10.185	10.185	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	12.9	12.9	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	25.732	25.732	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	3.572	3.572	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	3.572	3.572	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	6.552	6.552	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	6.901	6.901	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	6.552	6.552	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	6.901	6.901	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	11.434	11.434	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	3.225	3.225	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	3.225	3.225	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	6.433	6.433	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	3.572	3.572	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	14.288	14.288	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	19.299	19.299	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	6.552	6.552	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	6.901	6.901	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	19.299	19.299	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	26.208	26.208	0	%100
57	M71	X	0	0	0	%100

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	27.604	27.604	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	11.434	11.434	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	3.225	3.225	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	3.225	3.225	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	6.433	6.433	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	14.288	14.288	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	3.572	3.572	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	19.299	19.299	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	26.208	26.208	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	27.604	27.604	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	19.299	19.299	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	6.552	6.552	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	6.901	6.901	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	3.585	3.585	0	%100
85	MP3C	X	0	0	0	%100
86	MP3C	Z	10.185	10.185	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C	Z	10.185	10.185	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	12.33	12.33	0	%100
91	MP1C	X	0	0	0	%100
92	MP1C	Z	10.185	10.185	0	%100
93	M91B	X	0	0	0	%100
94	M91B	Z	3.585	3.585	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	10.185	10.185	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	10.185	10.185	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	12.33	12.33	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	10.185	10.185	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	12.33	12.33	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	3.082	3.082	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	3.082	3.082	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	3.543	3.543	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	14.174	14.174	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	3.543	3.543	0	%100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-5.377	-5.377	0	%100
2	FACE	Z	9.313	9.313	0	%100
3	M4	X	-1.906	-1.906	0	%100
4	M4	Z	3.301	3.301	0	%100
5	M10	X	-4.838	-4.838	0	%100
6	M10	Z	8.379	8.379	0	%100
7	MP3A	X	-5.093	-5.093	0	%100
8	MP3A	Z	8.821	8.821	0	%100
9	MP4A	X	-5.093	-5.093	0	%100
10	MP4A	Z	8.821	8.821	0	%100
11	MP2A	X	-6.165	-6.165	0	%100
12	MP2A	Z	10.678	10.678	0	%100
13	MP1A	X	-5.093	-5.093	0	%100
14	MP1A	Z	8.821	8.821	0	%100
15	M43	X	-4.838	-4.838	0	%100
16	M43	Z	8.379	8.379	0	%100
17	M46	X	-9.649	-9.649	0	%100
18	M46	Z	16.713	16.713	0	%100
19	M51B	X	-5.358	-5.358	0	%100
20	M51B	Z	9.28	9.28	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-3.216	-3.216	0	%100
24	M76	Z	5.571	5.571	0	%100
25	M77	X	-9.828	-9.828	0	%100
26	M77	Z	17.023	17.023	0	%100
27	M80	X	-10.352	-10.352	0	%100
28	M80	Z	17.93	17.93	0	%100
29	M84	X	-3.216	-3.216	0	%100
30	M84	Z	5.571	5.571	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-1.906	-1.906	0	%100
36	M52A	Z	3.301	3.301	0	%100
37	M53	X	-4.838	-4.838	0	%100
38	M53	Z	8.379	8.379	0	%100
39	M54	X	-4.838	-4.838	0	%100
40	M54	Z	8.379	8.379	0	%100
41	M55	X	-9.649	-9.649	0	%100
42	M55	Z	16.713	16.713	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	-5.358	-5.358	0	%100
46	M59A	Z	9.28	9.28	0	%100
47	M63	X	-3.216	-3.216	0	%100
48	M63	Z	5.571	5.571	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-3.216	-3.216	0	%100
54	M68	Z	5.571	5.571	0	%100
55	M69	X	-9.828	-9.828	0	%100
56	M69	Z	17.023	17.023	0	%100
57	M71	X	-10.352	-10.352	0	%100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	17.93	17.93	0	%100
59	M76A	X	-7.623	-7.623	0	%100
60	M76A	Z	13.203	13.203	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	-5.358	-5.358	0	%100
68	M82	Z	9.28	9.28	0	%100
69	M83A	X	-5.358	-5.358	0	%100
70	M83A	Z	9.28	9.28	0	%100
71	M87	X	-12.866	-12.866	0	%100
72	M87	Z	22.284	22.284	0	%100
73	M88A	X	-9.828	-9.828	0	%100
74	M88A	Z	17.023	17.023	0	%100
75	M90	X	-10.352	-10.352	0	%100
76	M90	Z	17.93	17.93	0	%100
77	M92A	X	-12.866	-12.866	0	%100
78	M92A	Z	22.284	22.284	0	%100
79	M93	X	-9.828	-9.828	0	%100
80	M93	Z	17.023	17.023	0	%100
81	M95	X	-10.352	-10.352	0	%100
82	M95	Z	17.93	17.93	0	%100
83	M82A	X	-5.377	-5.377	0	%100
84	M82A	Z	9.313	9.313	0	%100
85	MP3C	X	-5.093	-5.093	0	%100
86	MP3C	Z	8.821	8.821	0	%100
87	MP4C	X	-5.093	-5.093	0	%100
88	MP4C	Z	8.821	8.821	0	%100
89	MP2C	X	-6.165	-6.165	0	%100
90	MP2C	Z	10.678	10.678	0	%100
91	MP1C	X	-5.093	-5.093	0	%100
92	MP1C	Z	8.821	8.821	0	%100
93	M91B	X	0	0	0	%100
94	M91B	Z	0	0	0	%100
95	MP3B	X	-5.093	-5.093	0	%100
96	MP3B	Z	8.821	8.821	0	%100
97	MP4B	X	-5.093	-5.093	0	%100
98	MP4B	Z	8.821	8.821	0	%100
99	MP2B	X	-6.165	-6.165	0	%100
100	MP2B	Z	10.678	10.678	0	%100
101	MP1B	X	-5.093	-5.093	0	%100
102	MP1B	Z	8.821	8.821	0	%100
103	M104	X	-4.624	-4.624	0	%100
104	M104	Z	8.008	8.008	0	%100
105	M109	X	-4.624	-4.624	0	%100
106	M109	Z	8.008	8.008	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	-5.315	-5.315	0	%100
110	M121	Z	9.206	9.206	0	%100
111	M122	X	-5.315	-5.315	0	%100
112	M122	Z	9.206	9.206	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-3.104	-3.104	0	%100
2	FACE	Z	1.792	1.792	0	%100
3	M4	X	-9.902	-9.902	0	%100
4	M4	Z	5.717	5.717	0	%100
5	M10	X	-2.793	-2.793	0	%100
6	M10	Z	1.613	1.613	0	%100
7	MP3A	X	-8.821	-8.821	0	%100
8	MP3A	Z	5.093	5.093	0	%100
9	MP4A	X	-8.821	-8.821	0	%100
10	MP4A	Z	5.093	5.093	0	%100
11	MP2A	X	-10.678	-10.678	0	%100
12	MP2A	Z	6.165	6.165	0	%100
13	MP1A	X	-8.821	-8.821	0	%100
14	MP1A	Z	5.093	5.093	0	%100
15	M43	X	-2.793	-2.793	0	%100
16	M43	Z	1.613	1.613	0	%100
17	M46	X	-5.571	-5.571	0	%100
18	M46	Z	3.216	3.216	0	%100
19	M51B	X	-12.374	-12.374	0	%100
20	M51B	Z	7.144	7.144	0	%100
21	M52B	X	-3.093	-3.093	0	%100
22	M52B	Z	1.786	1.786	0	%100
23	M76	X	-16.713	-16.713	0	%100
24	M76	Z	9.649	9.649	0	%100
25	M77	X	-22.697	-22.697	0	%100
26	M77	Z	13.104	13.104	0	%100
27	M80	X	-23.906	-23.906	0	%100
28	M80	Z	13.802	13.802	0	%100
29	M84	X	-16.713	-16.713	0	%100
30	M84	Z	9.649	9.649	0	%100
31	M85	X	-5.674	-5.674	0	%100
32	M85	Z	3.276	3.276	0	%100
33	M91	X	-5.977	-5.977	0	%100
34	M91	Z	3.451	3.451	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-11.172	-11.172	0	%100
38	M53	Z	6.45	6.45	0	%100
39	M54	X	-11.172	-11.172	0	%100
40	M54	Z	6.45	6.45	0	%100
41	M55	X	-22.284	-22.284	0	%100
42	M55	Z	12.866	12.866	0	%100
43	M58A	X	-3.093	-3.093	0	%100
44	M58A	Z	1.786	1.786	0	%100
45	M59A	X	-3.093	-3.093	0	%100
46	M59A	Z	1.786	1.786	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-5.674	-5.674	0	%100
50	M64	Z	3.276	3.276	0	%100
51	M66	X	-5.977	-5.977	0	%100
52	M66	Z	3.451	3.451	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	-5.674	-5.674	0	%100
56	M69	Z	3.276	3.276	0	%100
57	M71	X	-5.977	-5.977	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	3.451	3.451	0	%100
59	M76A	X	-9.902	-9.902	0	%100
60	M76A	Z	5.717	5.717	0	%100
61	M77A	X	-2.793	-2.793	0	%100
62	M77A	Z	1.613	1.613	0	%100
63	M78	X	-2.793	-2.793	0	%100
64	M78	Z	1.613	1.613	0	%100
65	M79A	X	-5.571	-5.571	0	%100
66	M79A	Z	3.216	3.216	0	%100
67	M82	X	-3.093	-3.093	0	%100
68	M82	Z	1.786	1.786	0	%100
69	M83A	X	-12.374	-12.374	0	%100
70	M83A	Z	7.144	7.144	0	%100
71	M87	X	-16.713	-16.713	0	%100
72	M87	Z	9.649	9.649	0	%100
73	M88A	X	-5.674	-5.674	0	%100
74	M88A	Z	3.276	3.276	0	%100
75	M90	X	-5.977	-5.977	0	%100
76	M90	Z	3.451	3.451	0	%100
77	M92A	X	-16.713	-16.713	0	%100
78	M92A	Z	9.649	9.649	0	%100
79	M93	X	-22.697	-22.697	0	%100
80	M93	Z	13.104	13.104	0	%100
81	M95	X	-23.906	-23.906	0	%100
82	M95	Z	13.802	13.802	0	%100
83	M82A	X	-12.418	-12.418	0	%100
84	M82A	Z	7.169	7.169	0	%100
85	MP3C	X	-8.821	-8.821	0	%100
86	MP3C	Z	5.093	5.093	0	%100
87	MP4C	X	-8.821	-8.821	0	%100
88	MP4C	Z	5.093	5.093	0	%100
89	MP2C	X	-10.678	-10.678	0	%100
90	MP2C	Z	6.165	6.165	0	%100
91	MP1C	X	-8.821	-8.821	0	%100
92	MP1C	Z	5.093	5.093	0	%100
93	M91B	X	-3.104	-3.104	0	%100
94	M91B	Z	1.792	1.792	0	%100
95	MP3B	X	-8.821	-8.821	0	%100
96	MP3B	Z	5.093	5.093	0	%100
97	MP4B	X	-8.821	-8.821	0	%100
98	MP4B	Z	5.093	5.093	0	%100
99	MP2B	X	-10.678	-10.678	0	%100
100	MP2B	Z	6.165	6.165	0	%100
101	MP1B	X	-8.821	-8.821	0	%100
102	MP1B	Z	5.093	5.093	0	%100
103	M104	X	-2.669	-2.669	0	%100
104	M104	Z	1.541	1.541	0	%100
105	M109	X	-10.678	-10.678	0	%100
106	M109	Z	6.165	6.165	0	%100
107	M114	X	-2.669	-2.669	0	%100
108	M114	Z	1.541	1.541	0	%100
109	M121	X	-12.275	-12.275	0	%100
110	M121	Z	7.087	7.087	0	%100
111	M122	X	-3.069	-3.069	0	%100
112	M122	Z	1.772	1.772	0	%100
113	M123	X	-3.069	-3.069	0	%100
114	M123	Z	1.772	1.772	0	%100

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M4	X	-15.246	-15.246	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-10.185	-10.185	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-10.185	-10.185	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-12.33	-12.33	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-10.185	-10.185	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-10.716	-10.716	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-10.716	-10.716	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-25.732	-25.732	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-19.656	-19.656	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-20.703	-20.703	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-25.732	-25.732	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-19.656	-19.656	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-20.703	-20.703	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-3.811	-3.811	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-9.675	-9.675	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	-9.675	-9.675	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	-19.299	-19.299	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-10.716	-10.716	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	-6.433	-6.433	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-19.656	-19.656	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	-20.703	-20.703	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-6.433	-6.433	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	0	0	0	%100
59	M76A	X	-3.811	-3.811	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-9.675	-9.675	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	-9.675	-9.675	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	-19.299	-19.299	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	-10.716	-10.716	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-6.433	-6.433	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	-6.433	-6.433	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-19.656	-19.656	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	-20.703	-20.703	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	-10.754	-10.754	0	%100
84	M82A	Z	0	0	0	%100
85	MP3C	X	-10.185	-10.185	0	%100
86	MP3C	Z	0	0	0	%100
87	MP4C	X	-10.185	-10.185	0	%100
88	MP4C	Z	0	0	0	%100
89	MP2C	X	-12.33	-12.33	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	-10.185	-10.185	0	%100
92	MP1C	Z	0	0	0	%100
93	M91B	X	-10.754	-10.754	0	%100
94	M91B	Z	0	0	0	%100
95	MP3B	X	-10.185	-10.185	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	-10.185	-10.185	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	-12.33	-12.33	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-10.185	-10.185	0	%100
102	MP1B	Z	0	0	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	0	0	0	%100
105	M109	X	-9.247	-9.247	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	-9.247	-9.247	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	-10.63	-10.63	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	-10.63	-10.63	0	%100
114	M123	Z	0	0	0	%100

Member Distributed Loads (BLC 51 : Structure Wo (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-3.104	-3.104	0	%100
2	FACE	Z	-1.792	-1.792	0	%100
3	M4	X	-9.902	-9.902	0	%100
4	M4	Z	-5.717	-5.717	0	%100
5	M10	X	-2.793	-2.793	0	%100
6	M10	Z	-1.613	-1.613	0	%100
7	MP3A	X	-8.821	-8.821	0	%100
8	MP3A	Z	-5.093	-5.093	0	%100
9	MP4A	X	-8.821	-8.821	0	%100
10	MP4A	Z	-5.093	-5.093	0	%100
11	MP2A	X	-10.678	-10.678	0	%100
12	MP2A	Z	-6.165	-6.165	0	%100
13	MP1A	X	-8.821	-8.821	0	%100
14	MP1A	Z	-5.093	-5.093	0	%100
15	M43	X	-2.793	-2.793	0	%100
16	M43	Z	-1.613	-1.613	0	%100
17	M46	X	-5.571	-5.571	0	%100
18	M46	Z	-3.216	-3.216	0	%100
19	M51B	X	-3.093	-3.093	0	%100
20	M51B	Z	-1.786	-1.786	0	%100
21	M52B	X	-12.374	-12.374	0	%100
22	M52B	Z	-7.144	-7.144	0	%100
23	M76	X	-16.713	-16.713	0	%100
24	M76	Z	-9.649	-9.649	0	%100
25	M77	X	-5.674	-5.674	0	%100
26	M77	Z	-3.276	-3.276	0	%100
27	M80	X	-5.977	-5.977	0	%100
28	M80	Z	-3.451	-3.451	0	%100
29	M84	X	-16.713	-16.713	0	%100
30	M84	Z	-9.649	-9.649	0	%100
31	M85	X	-22.697	-22.697	0	%100
32	M85	Z	-13.104	-13.104	0	%100
33	M91	X	-23.906	-23.906	0	%100
34	M91	Z	-13.802	-13.802	0	%100
35	M52A	X	-9.902	-9.902	0	%100
36	M52A	Z	-5.717	-5.717	0	%100
37	M53	X	-2.793	-2.793	0	%100
38	M53	Z	-1.613	-1.613	0	%100
39	M54	X	-2.793	-2.793	0	%100
40	M54	Z	-1.613	-1.613	0	%100
41	M55	X	-5.571	-5.571	0	%100
42	M55	Z	-3.216	-3.216	0	%100
43	M58A	X	-12.374	-12.374	0	%100
44	M58A	Z	-7.144	-7.144	0	%100
45	M59A	X	-3.093	-3.093	0	%100
46	M59A	Z	-1.786	-1.786	0	%100
47	M63	X	-16.713	-16.713	0	%100
48	M63	Z	-9.649	-9.649	0	%100
49	M64	X	-22.697	-22.697	0	%100
50	M64	Z	-13.104	-13.104	0	%100
51	M66	X	-23.906	-23.906	0	%100
52	M66	Z	-13.802	-13.802	0	%100
53	M68	X	-16.713	-16.713	0	%100
54	M68	Z	-9.649	-9.649	0	%100
55	M69	X	-5.674	-5.674	0	%100
56	M69	Z	-3.276	-3.276	0	%100
57	M71	X	-5.977	-5.977	0	%100

Member Distributed Loads (BLC 51 : Structure Wo (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-3.451	-3.451	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-11.172	-11.172	0	%100
62	M77A	Z	-6.45	-6.45	0	%100
63	M78	X	-11.172	-11.172	0	%100
64	M78	Z	-6.45	-6.45	0	%100
65	M79A	X	-22.284	-22.284	0	%100
66	M79A	Z	-12.866	-12.866	0	%100
67	M82	X	-3.093	-3.093	0	%100
68	M82	Z	-1.786	-1.786	0	%100
69	M83A	X	-3.093	-3.093	0	%100
70	M83A	Z	-1.786	-1.786	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	-5.674	-5.674	0	%100
74	M88A	Z	-3.276	-3.276	0	%100
75	M90	X	-5.977	-5.977	0	%100
76	M90	Z	-3.451	-3.451	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-5.674	-5.674	0	%100
80	M93	Z	-3.276	-3.276	0	%100
81	M95	X	-5.977	-5.977	0	%100
82	M95	Z	-3.451	-3.451	0	%100
83	M82A	X	-3.104	-3.104	0	%100
84	M82A	Z	-1.792	-1.792	0	%100
85	MP3C	X	-8.821	-8.821	0	%100
86	MP3C	Z	-5.093	-5.093	0	%100
87	MP4C	X	-8.821	-8.821	0	%100
88	MP4C	Z	-5.093	-5.093	0	%100
89	MP2C	X	-10.678	-10.678	0	%100
90	MP2C	Z	-6.165	-6.165	0	%100
91	MP1C	X	-8.821	-8.821	0	%100
92	MP1C	Z	-5.093	-5.093	0	%100
93	M91B	X	-12.418	-12.418	0	%100
94	M91B	Z	-7.169	-7.169	0	%100
95	MP3B	X	-8.821	-8.821	0	%100
96	MP3B	Z	-5.093	-5.093	0	%100
97	MP4B	X	-8.821	-8.821	0	%100
98	MP4B	Z	-5.093	-5.093	0	%100
99	MP2B	X	-10.678	-10.678	0	%100
100	MP2B	Z	-6.165	-6.165	0	%100
101	MP1B	X	-8.821	-8.821	0	%100
102	MP1B	Z	-5.093	-5.093	0	%100
103	M104	X	-2.669	-2.669	0	%100
104	M104	Z	-1.541	-1.541	0	%100
105	M109	X	-2.669	-2.669	0	%100
106	M109	Z	-1.541	-1.541	0	%100
107	M114	X	-10.678	-10.678	0	%100
108	M114	Z	-6.165	-6.165	0	%100
109	M121	X	-3.069	-3.069	0	%100
110	M121	Z	-1.772	-1.772	0	%100
111	M122	X	-3.069	-3.069	0	%100
112	M122	Z	-1.772	-1.772	0	%100
113	M123	X	-12.275	-12.275	0	%100
114	M123	Z	-7.087	-7.087	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-5.377	-5.377	0	%100
2	FACE	Z	-9.313	-9.313	0	%100
3	M4	X	-1.906	-1.906	0	%100
4	M4	Z	-3.301	-3.301	0	%100
5	M10	X	-4.838	-4.838	0	%100
6	M10	Z	-8.379	-8.379	0	%100
7	MP3A	X	-5.093	-5.093	0	%100
8	MP3A	Z	-8.821	-8.821	0	%100
9	MP4A	X	-5.093	-5.093	0	%100
10	MP4A	Z	-8.821	-8.821	0	%100
11	MP2A	X	-6.165	-6.165	0	%100
12	MP2A	Z	-10.678	-10.678	0	%100
13	MP1A	X	-5.093	-5.093	0	%100
14	MP1A	Z	-8.821	-8.821	0	%100
15	M43	X	-4.838	-4.838	0	%100
16	M43	Z	-8.379	-8.379	0	%100
17	M46	X	-9.649	-9.649	0	%100
18	M46	Z	-16.713	-16.713	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-5.358	-5.358	0	%100
22	M52B	Z	-9.28	-9.28	0	%100
23	M76	X	-3.216	-3.216	0	%100
24	M76	Z	-5.571	-5.571	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-3.216	-3.216	0	%100
30	M84	Z	-5.571	-5.571	0	%100
31	M85	X	-9.828	-9.828	0	%100
32	M85	Z	-17.023	-17.023	0	%100
33	M91	X	-10.352	-10.352	0	%100
34	M91	Z	-17.93	-17.93	0	%100
35	M52A	X	-7.623	-7.623	0	%100
36	M52A	Z	-13.203	-13.203	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-5.358	-5.358	0	%100
44	M58A	Z	-9.28	-9.28	0	%100
45	M59A	X	-5.358	-5.358	0	%100
46	M59A	Z	-9.28	-9.28	0	%100
47	M63	X	-12.866	-12.866	0	%100
48	M63	Z	-22.284	-22.284	0	%100
49	M64	X	-9.828	-9.828	0	%100
50	M64	Z	-17.023	-17.023	0	%100
51	M66	X	-10.352	-10.352	0	%100
52	M66	Z	-17.93	-17.93	0	%100
53	M68	X	-12.866	-12.866	0	%100
54	M68	Z	-22.284	-22.284	0	%100
55	M69	X	-9.828	-9.828	0	%100
56	M69	Z	-17.023	-17.023	0	%100
57	M71	X	-10.352	-10.352	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-17.93	-17.93	0	%100
59	M76A	X	-1.906	-1.906	0	%100
60	M76A	Z	-3.301	-3.301	0	%100
61	M77A	X	-4.838	-4.838	0	%100
62	M77A	Z	-8.379	-8.379	0	%100
63	M78	X	-4.838	-4.838	0	%100
64	M78	Z	-8.379	-8.379	0	%100
65	M79A	X	-9.649	-9.649	0	%100
66	M79A	Z	-16.713	-16.713	0	%100
67	M82	X	-5.358	-5.358	0	%100
68	M82	Z	-9.28	-9.28	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-3.216	-3.216	0	%100
72	M87	Z	-5.571	-5.571	0	%100
73	M88A	X	-9.828	-9.828	0	%100
74	M88A	Z	-17.023	-17.023	0	%100
75	M90	X	-10.352	-10.352	0	%100
76	M90	Z	-17.93	-17.93	0	%100
77	M92A	X	-3.216	-3.216	0	%100
78	M92A	Z	-5.571	-5.571	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	MP3C	X	-5.093	-5.093	0	%100
86	MP3C	Z	-8.821	-8.821	0	%100
87	MP4C	X	-5.093	-5.093	0	%100
88	MP4C	Z	-8.821	-8.821	0	%100
89	MP2C	X	-6.165	-6.165	0	%100
90	MP2C	Z	-10.678	-10.678	0	%100
91	MP1C	X	-5.093	-5.093	0	%100
92	MP1C	Z	-8.821	-8.821	0	%100
93	M91B	X	-5.377	-5.377	0	%100
94	M91B	Z	-9.313	-9.313	0	%100
95	MP3B	X	-5.093	-5.093	0	%100
96	MP3B	Z	-8.821	-8.821	0	%100
97	MP4B	X	-5.093	-5.093	0	%100
98	MP4B	Z	-8.821	-8.821	0	%100
99	MP2B	X	-6.165	-6.165	0	%100
100	MP2B	Z	-10.678	-10.678	0	%100
101	MP1B	X	-5.093	-5.093	0	%100
102	MP1B	Z	-8.821	-8.821	0	%100
103	M104	X	-4.624	-4.624	0	%100
104	M104	Z	-8.008	-8.008	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	-4.624	-4.624	0	%100
108	M114	Z	-8.008	-8.008	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	-5.315	-5.315	0	%100
112	M122	Z	-9.206	-9.206	0	%100
113	M123	X	-5.315	-5.315	0	%100
114	M123	Z	-9.206	-9.206	0	%100

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	-4.17	-4.17	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-3.432	-3.432	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-3.359	-3.359	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-3.359	-3.359	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-3.719	-3.719	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-3.359	-3.359	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-3.432	-3.432	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-5.372	-5.372	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-.988	-.988	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-.988	-.988	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	-1.341	-1.341	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	-1.4	-1.4	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	-1.341	-1.341	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	-1.4	-1.4	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	-3.157	-3.157	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	-.858	-.858	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	-.858	-.858	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	-1.343	-1.343	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	-.988	-.988	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	-3.951	-3.951	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	-3.963	-3.963	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	-1.341	-1.341	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	-1.4	-1.4	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	-3.963	-3.963	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	-5.364	-5.364	0	%100
57	M71	X	0	0	0	%100

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-5.598	-5.598	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	-3.157	-3.157	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	-.858	-.858	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	-.858	-.858	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	-1.343	-1.343	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	-3.951	-3.951	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	-.988	-.988	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	-3.963	-3.963	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	-5.364	-5.364	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	-5.598	-5.598	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	-3.963	-3.963	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	-1.341	-1.341	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	-1.4	-1.4	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	-1.042	-1.042	0	%100
85	MP3C	X	0	0	0	%100
86	MP3C	Z	-3.359	-3.359	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C	Z	-3.359	-3.359	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	-3.719	-3.719	0	%100
91	MP1C	X	0	0	0	%100
92	MP1C	Z	-3.359	-3.359	0	%100
93	M91B	X	0	0	0	%100
94	M91B	Z	-1.042	-1.042	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	-3.359	-3.359	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	-3.359	-3.359	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-3.719	-3.719	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-3.359	-3.359	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	-3.719	-3.719	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	-.93	-.93	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	-.93	-.93	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	-.869	-.869	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	-3.476	-3.476	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	-.869	-.869	0	%100

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	1.564	1.564	0	%100
2	FACE	Z	-2.708	-2.708	0	%100
3	M4	X	.526	.526	0	%100
4	M4	Z	-.911	-.911	0	%100
5	M10	X	1.287	1.287	0	%100
6	M10	Z	-2.229	-2.229	0	%100
7	MP3A	X	1.68	1.68	0	%100
8	MP3A	Z	-2.909	-2.909	0	%100
9	MP4A	X	1.68	1.68	0	%100
10	MP4A	Z	-2.909	-2.909	0	%100
11	MP2A	X	1.86	1.86	0	%100
12	MP2A	Z	-3.221	-3.221	0	%100
13	MP1A	X	1.68	1.68	0	%100
14	MP1A	Z	-2.909	-2.909	0	%100
15	M43	X	1.287	1.287	0	%100
16	M43	Z	-2.229	-2.229	0	%100
17	M46	X	2.015	2.015	0	%100
18	M46	Z	-3.489	-3.489	0	%100
19	M51B	X	1.482	1.482	0	%100
20	M51B	Z	-2.567	-2.567	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	.66	.66	0	%100
24	M76	Z	-1.144	-1.144	0	%100
25	M77	X	2.011	2.011	0	%100
26	M77	Z	-3.484	-3.484	0	%100
27	M80	X	2.099	2.099	0	%100
28	M80	Z	-3.636	-3.636	0	%100
29	M84	X	.66	.66	0	%100
30	M84	Z	-1.144	-1.144	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	.526	.526	0	%100
36	M52A	Z	-.911	-.911	0	%100
37	M53	X	1.287	1.287	0	%100
38	M53	Z	-2.229	-2.229	0	%100
39	M54	X	1.287	1.287	0	%100
40	M54	Z	-2.229	-2.229	0	%100
41	M55	X	2.015	2.015	0	%100
42	M55	Z	-3.489	-3.489	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	1.482	1.482	0	%100
46	M59A	Z	-2.567	-2.567	0	%100
47	M63	X	.66	.66	0	%100
48	M63	Z	-1.144	-1.144	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	.66	.66	0	%100
54	M68	Z	-1.144	-1.144	0	%100
55	M69	X	2.011	2.011	0	%100
56	M69	Z	-3.484	-3.484	0	%100
57	M71	X	2.099	2.099	0	%100

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-3.636	-3.636	0	%100
59	M76A	X	2.105	2.105	0	%100
60	M76A	Z	-3.645	-3.645	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	1.482	1.482	0	%100
68	M82	Z	-2.567	-2.567	0	%100
69	M83A	X	1.482	1.482	0	%100
70	M83A	Z	-2.567	-2.567	0	%100
71	M87	X	2.642	2.642	0	%100
72	M87	Z	-4.576	-4.576	0	%100
73	M88A	X	2.011	2.011	0	%100
74	M88A	Z	-3.484	-3.484	0	%100
75	M90	X	2.099	2.099	0	%100
76	M90	Z	-3.636	-3.636	0	%100
77	M92A	X	2.642	2.642	0	%100
78	M92A	Z	-4.576	-4.576	0	%100
79	M93	X	2.011	2.011	0	%100
80	M93	Z	-3.484	-3.484	0	%100
81	M95	X	2.099	2.099	0	%100
82	M95	Z	-3.636	-3.636	0	%100
83	M82A	X	1.564	1.564	0	%100
84	M82A	Z	-2.708	-2.708	0	%100
85	MP3C	X	1.68	1.68	0	%100
86	MP3C	Z	-2.909	-2.909	0	%100
87	MP4C	X	1.68	1.68	0	%100
88	MP4C	Z	-2.909	-2.909	0	%100
89	MP2C	X	1.86	1.86	0	%100
90	MP2C	Z	-3.221	-3.221	0	%100
91	MP1C	X	1.68	1.68	0	%100
92	MP1C	Z	-2.909	-2.909	0	%100
93	M91B	X	0	0	0	%100
94	M91B	Z	0	0	0	%100
95	MP3B	X	1.68	1.68	0	%100
96	MP3B	Z	-2.909	-2.909	0	%100
97	MP4B	X	1.68	1.68	0	%100
98	MP4B	Z	-2.909	-2.909	0	%100
99	MP2B	X	1.86	1.86	0	%100
100	MP2B	Z	-3.221	-3.221	0	%100
101	MP1B	X	1.68	1.68	0	%100
102	MP1B	Z	-2.909	-2.909	0	%100
103	M104	X	1.395	1.395	0	%100
104	M104	Z	-2.416	-2.416	0	%100
105	M109	X	1.395	1.395	0	%100
106	M109	Z	-2.416	-2.416	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	1.303	1.303	0	%100
110	M121	Z	-2.258	-2.258	0	%100
111	M122	X	1.303	1.303	0	%100
112	M122	Z	-2.258	-2.258	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100

Member Distributed Loads (BLC 55 : Structure Wi (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.903	.903	0	%100
2	FACE	Z	-.521	-.521	0	%100
3	M4	X	2.734	2.734	0	%100
4	M4	Z	-1.578	-1.578	0	%100
5	M10	X	.743	.743	0	%100
6	M10	Z	-.429	-.429	0	%100
7	MP3A	X	2.909	2.909	0	%100
8	MP3A	Z	-1.68	-1.68	0	%100
9	MP4A	X	2.909	2.909	0	%100
10	MP4A	Z	-1.68	-1.68	0	%100
11	MP2A	X	3.221	3.221	0	%100
12	MP2A	Z	-1.86	-1.86	0	%100
13	MP1A	X	2.909	2.909	0	%100
14	MP1A	Z	-1.68	-1.68	0	%100
15	M43	X	.743	.743	0	%100
16	M43	Z	-.429	-.429	0	%100
17	M46	X	1.163	1.163	0	%100
18	M46	Z	-.672	-.672	0	%100
19	M51B	X	3.422	3.422	0	%100
20	M51B	Z	-1.976	-1.976	0	%100
21	M52B	X	.856	.856	0	%100
22	M52B	Z	-.494	-.494	0	%100
23	M76	X	3.432	3.432	0	%100
24	M76	Z	-1.981	-1.981	0	%100
25	M77	X	4.645	4.645	0	%100
26	M77	Z	-2.682	-2.682	0	%100
27	M80	X	4.848	4.848	0	%100
28	M80	Z	-2.799	-2.799	0	%100
29	M84	X	3.432	3.432	0	%100
30	M84	Z	-1.981	-1.981	0	%100
31	M85	X	1.161	1.161	0	%100
32	M85	Z	-.67	-.67	0	%100
33	M91	X	1.212	1.212	0	%100
34	M91	Z	-.7	-.7	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	2.972	2.972	0	%100
38	M53	Z	-1.716	-1.716	0	%100
39	M54	X	2.972	2.972	0	%100
40	M54	Z	-1.716	-1.716	0	%100
41	M55	X	4.653	4.653	0	%100
42	M55	Z	-2.686	-2.686	0	%100
43	M58A	X	.856	.856	0	%100
44	M58A	Z	-.494	-.494	0	%100
45	M59A	X	.856	.856	0	%100
46	M59A	Z	-.494	-.494	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	1.161	1.161	0	%100
50	M64	Z	-.67	-.67	0	%100
51	M66	X	1.212	1.212	0	%100
52	M66	Z	-.7	-.7	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	1.161	1.161	0	%100
56	M69	Z	-.67	-.67	0	%100
57	M71	X	1.212	1.212	0	%100

Member Distributed Loads (BLC 55 : Structure Wi (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-.7	-.7	0	%100
59	M76A	X	2.734	2.734	0	%100
60	M76A	Z	-1.578	-1.578	0	%100
61	M77A	X	.743	.743	0	%100
62	M77A	Z	-.429	-.429	0	%100
63	M78	X	.743	.743	0	%100
64	M78	Z	-.429	-.429	0	%100
65	M79A	X	1.163	1.163	0	%100
66	M79A	Z	-.672	-.672	0	%100
67	M82	X	.856	.856	0	%100
68	M82	Z	-.494	-.494	0	%100
69	M83A	X	3.422	3.422	0	%100
70	M83A	Z	-1.976	-1.976	0	%100
71	M87	X	3.432	3.432	0	%100
72	M87	Z	-1.981	-1.981	0	%100
73	M88A	X	1.161	1.161	0	%100
74	M88A	Z	-.67	-.67	0	%100
75	M90	X	1.212	1.212	0	%100
76	M90	Z	-.7	-.7	0	%100
77	M92A	X	3.432	3.432	0	%100
78	M92A	Z	-1.981	-1.981	0	%100
79	M93	X	4.645	4.645	0	%100
80	M93	Z	-2.682	-2.682	0	%100
81	M95	X	4.848	4.848	0	%100
82	M95	Z	-2.799	-2.799	0	%100
83	M82A	X	3.611	3.611	0	%100
84	M82A	Z	-2.085	-2.085	0	%100
85	MP3C	X	2.909	2.909	0	%100
86	MP3C	Z	-1.68	-1.68	0	%100
87	MP4C	X	2.909	2.909	0	%100
88	MP4C	Z	-1.68	-1.68	0	%100
89	MP2C	X	3.221	3.221	0	%100
90	MP2C	Z	-1.86	-1.86	0	%100
91	MP1C	X	2.909	2.909	0	%100
92	MP1C	Z	-1.68	-1.68	0	%100
93	M91B	X	.903	.903	0	%100
94	M91B	Z	-.521	-.521	0	%100
95	MP3B	X	2.909	2.909	0	%100
96	MP3B	Z	-1.68	-1.68	0	%100
97	MP4B	X	2.909	2.909	0	%100
98	MP4B	Z	-1.68	-1.68	0	%100
99	MP2B	X	3.221	3.221	0	%100
100	MP2B	Z	-1.86	-1.86	0	%100
101	MP1B	X	2.909	2.909	0	%100
102	MP1B	Z	-1.68	-1.68	0	%100
103	M104	X	.805	.805	0	%100
104	M104	Z	-.465	-.465	0	%100
105	M109	X	3.221	3.221	0	%100
106	M109	Z	-1.86	-1.86	0	%100
107	M114	X	.805	.805	0	%100
108	M114	Z	-.465	-.465	0	%100
109	M121	X	3.01	3.01	0	%100
110	M121	Z	-1.738	-1.738	0	%100
111	M122	X	.753	.753	0	%100
112	M122	Z	-.434	-.434	0	%100
113	M123	X	.753	.753	0	%100
114	M123	Z	-.434	-.434	0	%100

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M4	X	4.209	4.209	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	3.359	3.359	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	3.359	3.359	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	3.719	3.719	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	3.359	3.359	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	2.964	2.964	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	2.964	2.964	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	5.284	5.284	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	4.023	4.023	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	4.199	4.199	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	5.284	5.284	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	4.023	4.023	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	4.199	4.199	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	1.052	1.052	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	2.574	2.574	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	2.574	2.574	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	4.029	4.029	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	2.964	2.964	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	1.321	1.321	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	4.023	4.023	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	4.199	4.199	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	1.321	1.321	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	0	0	0	%100
59	M76A	X	1.052	1.052	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	2.574	2.574	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	2.574	2.574	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	4.029	4.029	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	2.964	2.964	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	1.321	1.321	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	1.321	1.321	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	4.023	4.023	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	4.199	4.199	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	3.127	3.127	0	%100
84	M82A	Z	0	0	0	%100
85	MP3C	X	3.359	3.359	0	%100
86	MP3C	Z	0	0	0	%100
87	MP4C	X	3.359	3.359	0	%100
88	MP4C	Z	0	0	0	%100
89	MP2C	X	3.719	3.719	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	3.359	3.359	0	%100
92	MP1C	Z	0	0	0	%100
93	M91B	X	3.127	3.127	0	%100
94	M91B	Z	0	0	0	%100
95	MP3B	X	3.359	3.359	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	3.359	3.359	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	3.719	3.719	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	3.359	3.359	0	%100
102	MP1B	Z	0	0	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	0	0	0	%100
105	M109	X	2.79	2.79	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	2.79	2.79	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	2.607	2.607	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	2.607	2.607	0	%100
114	M123	Z	0	0	0	%100

Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.903	.903	0	%100
2	FACE	Z	.521	.521	0	%100
3	M4	X	2.734	2.734	0	%100
4	M4	Z	1.578	1.578	0	%100
5	M10	X	.743	.743	0	%100
6	M10	Z	.429	.429	0	%100
7	MP3A	X	2.909	2.909	0	%100
8	MP3A	Z	1.68	1.68	0	%100
9	MP4A	X	2.909	2.909	0	%100
10	MP4A	Z	1.68	1.68	0	%100
11	MP2A	X	3.221	3.221	0	%100
12	MP2A	Z	1.86	1.86	0	%100
13	MP1A	X	2.909	2.909	0	%100
14	MP1A	Z	1.68	1.68	0	%100
15	M43	X	.743	.743	0	%100
16	M43	Z	.429	.429	0	%100
17	M46	X	1.163	1.163	0	%100
18	M46	Z	.672	.672	0	%100
19	M51B	X	.856	.856	0	%100
20	M51B	Z	.494	.494	0	%100
21	M52B	X	3.422	3.422	0	%100
22	M52B	Z	1.976	1.976	0	%100
23	M76	X	3.432	3.432	0	%100
24	M76	Z	1.981	1.981	0	%100
25	M77	X	1.161	1.161	0	%100
26	M77	Z	.67	.67	0	%100
27	M80	X	1.212	1.212	0	%100
28	M80	Z	.7	.7	0	%100
29	M84	X	3.432	3.432	0	%100
30	M84	Z	1.981	1.981	0	%100
31	M85	X	4.645	4.645	0	%100
32	M85	Z	2.682	2.682	0	%100
33	M91	X	4.848	4.848	0	%100
34	M91	Z	2.799	2.799	0	%100
35	M52A	X	2.734	2.734	0	%100
36	M52A	Z	1.578	1.578	0	%100
37	M53	X	.743	.743	0	%100
38	M53	Z	.429	.429	0	%100
39	M54	X	.743	.743	0	%100
40	M54	Z	.429	.429	0	%100
41	M55	X	1.163	1.163	0	%100
42	M55	Z	.672	.672	0	%100
43	M58A	X	3.422	3.422	0	%100
44	M58A	Z	1.976	1.976	0	%100
45	M59A	X	.856	.856	0	%100
46	M59A	Z	.494	.494	0	%100
47	M63	X	3.432	3.432	0	%100
48	M63	Z	1.981	1.981	0	%100
49	M64	X	4.645	4.645	0	%100
50	M64	Z	2.682	2.682	0	%100
51	M66	X	4.848	4.848	0	%100
52	M66	Z	2.799	2.799	0	%100
53	M68	X	3.432	3.432	0	%100
54	M68	Z	1.981	1.981	0	%100
55	M69	X	1.161	1.161	0	%100
56	M69	Z	.67	.67	0	%100
57	M71	X	1.212	1.212	0	%100

Member Distributed Loads (BLC 57 : Structure Wi (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	.7	.7	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	2.972	2.972	0	%100
62	M77A	Z	1.716	1.716	0	%100
63	M78	X	2.972	2.972	0	%100
64	M78	Z	1.716	1.716	0	%100
65	M79A	X	4.653	4.653	0	%100
66	M79A	Z	2.686	2.686	0	%100
67	M82	X	.856	.856	0	%100
68	M82	Z	.494	.494	0	%100
69	M83A	X	.856	.856	0	%100
70	M83A	Z	.494	.494	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	1.161	1.161	0	%100
74	M88A	Z	.67	.67	0	%100
75	M90	X	1.212	1.212	0	%100
76	M90	Z	.7	.7	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	1.161	1.161	0	%100
80	M93	Z	.67	.67	0	%100
81	M95	X	1.212	1.212	0	%100
82	M95	Z	.7	.7	0	%100
83	M82A	X	.903	.903	0	%100
84	M82A	Z	.521	.521	0	%100
85	MP3C	X	2.909	2.909	0	%100
86	MP3C	Z	1.68	1.68	0	%100
87	MP4C	X	2.909	2.909	0	%100
88	MP4C	Z	1.68	1.68	0	%100
89	MP2C	X	3.221	3.221	0	%100
90	MP2C	Z	1.86	1.86	0	%100
91	MP1C	X	2.909	2.909	0	%100
92	MP1C	Z	1.68	1.68	0	%100
93	M91B	X	3.611	3.611	0	%100
94	M91B	Z	2.085	2.085	0	%100
95	MP3B	X	2.909	2.909	0	%100
96	MP3B	Z	1.68	1.68	0	%100
97	MP4B	X	2.909	2.909	0	%100
98	MP4B	Z	1.68	1.68	0	%100
99	MP2B	X	3.221	3.221	0	%100
100	MP2B	Z	1.86	1.86	0	%100
101	MP1B	X	2.909	2.909	0	%100
102	MP1B	Z	1.68	1.68	0	%100
103	M104	X	.805	.805	0	%100
104	M104	Z	.465	.465	0	%100
105	M109	X	.805	.805	0	%100
106	M109	Z	.465	.465	0	%100
107	M114	X	3.221	3.221	0	%100
108	M114	Z	1.86	1.86	0	%100
109	M121	X	.753	.753	0	%100
110	M121	Z	.434	.434	0	%100
111	M122	X	.753	.753	0	%100
112	M122	Z	.434	.434	0	%100
113	M123	X	3.01	3.01	0	%100
114	M123	Z	1.738	1.738	0	%100

Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	1.564	1.564	0	%100
2	FACE	Z	2.708	2.708	0	%100
3	M4	X	.526	.526	0	%100
4	M4	Z	.911	.911	0	%100
5	M10	X	1.287	1.287	0	%100
6	M10	Z	2.229	2.229	0	%100
7	MP3A	X	1.68	1.68	0	%100
8	MP3A	Z	2.909	2.909	0	%100
9	MP4A	X	1.68	1.68	0	%100
10	MP4A	Z	2.909	2.909	0	%100
11	MP2A	X	1.86	1.86	0	%100
12	MP2A	Z	3.221	3.221	0	%100
13	MP1A	X	1.68	1.68	0	%100
14	MP1A	Z	2.909	2.909	0	%100
15	M43	X	1.287	1.287	0	%100
16	M43	Z	2.229	2.229	0	%100
17	M46	X	2.015	2.015	0	%100
18	M46	Z	3.489	3.489	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	1.482	1.482	0	%100
22	M52B	Z	2.567	2.567	0	%100
23	M76	X	.66	.66	0	%100
24	M76	Z	1.144	1.144	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	.66	.66	0	%100
30	M84	Z	1.144	1.144	0	%100
31	M85	X	2.011	2.011	0	%100
32	M85	Z	3.484	3.484	0	%100
33	M91	X	2.099	2.099	0	%100
34	M91	Z	3.636	3.636	0	%100
35	M52A	X	2.105	2.105	0	%100
36	M52A	Z	3.645	3.645	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	1.482	1.482	0	%100
44	M58A	Z	2.567	2.567	0	%100
45	M59A	X	1.482	1.482	0	%100
46	M59A	Z	2.567	2.567	0	%100
47	M63	X	2.642	2.642	0	%100
48	M63	Z	4.576	4.576	0	%100
49	M64	X	2.011	2.011	0	%100
50	M64	Z	3.484	3.484	0	%100
51	M66	X	2.099	2.099	0	%100
52	M66	Z	3.636	3.636	0	%100
53	M68	X	2.642	2.642	0	%100
54	M68	Z	4.576	4.576	0	%100
55	M69	X	2.011	2.011	0	%100
56	M69	Z	3.484	3.484	0	%100
57	M71	X	2.099	2.099	0	%100

Member Distributed Loads (BLC 58 : Structure Wi (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	3.636	3.636	0	%100
59	M76A	X	.526	.526	0	%100
60	M76A	Z	.911	.911	0	%100
61	M77A	X	1.287	1.287	0	%100
62	M77A	Z	2.229	2.229	0	%100
63	M78	X	1.287	1.287	0	%100
64	M78	Z	2.229	2.229	0	%100
65	M79A	X	2.015	2.015	0	%100
66	M79A	Z	3.489	3.489	0	%100
67	M82	X	1.482	1.482	0	%100
68	M82	Z	2.567	2.567	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	.66	.66	0	%100
72	M87	Z	1.144	1.144	0	%100
73	M88A	X	2.011	2.011	0	%100
74	M88A	Z	3.484	3.484	0	%100
75	M90	X	2.099	2.099	0	%100
76	M90	Z	3.636	3.636	0	%100
77	M92A	X	.66	.66	0	%100
78	M92A	Z	1.144	1.144	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	MP3C	X	1.68	1.68	0	%100
86	MP3C	Z	2.909	2.909	0	%100
87	MP4C	X	1.68	1.68	0	%100
88	MP4C	Z	2.909	2.909	0	%100
89	MP2C	X	1.86	1.86	0	%100
90	MP2C	Z	3.221	3.221	0	%100
91	MP1C	X	1.68	1.68	0	%100
92	MP1C	Z	2.909	2.909	0	%100
93	M91B	X	1.564	1.564	0	%100
94	M91B	Z	2.708	2.708	0	%100
95	MP3B	X	1.68	1.68	0	%100
96	MP3B	Z	2.909	2.909	0	%100
97	MP4B	X	1.68	1.68	0	%100
98	MP4B	Z	2.909	2.909	0	%100
99	MP2B	X	1.86	1.86	0	%100
100	MP2B	Z	3.221	3.221	0	%100
101	MP1B	X	1.68	1.68	0	%100
102	MP1B	Z	2.909	2.909	0	%100
103	M104	X	1.395	1.395	0	%100
104	M104	Z	2.416	2.416	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	1.395	1.395	0	%100
108	M114	Z	2.416	2.416	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	1.303	1.303	0	%100
112	M122	Z	2.258	2.258	0	%100
113	M123	X	1.303	1.303	0	%100
114	M123	Z	2.258	2.258	0	%100

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	4.17	4.17	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	3.432	3.432	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	3.359	3.359	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	3.359	3.359	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	3.719	3.719	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	3.359	3.359	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	3.432	3.432	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	5.372	5.372	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	.988	.988	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	.988	.988	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	1.341	1.341	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	1.4	1.4	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	1.341	1.341	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	1.4	1.4	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	3.157	3.157	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	.858	.858	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	.858	.858	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	1.343	1.343	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	.988	.988	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	3.951	3.951	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	3.963	3.963	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	1.341	1.341	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	1.4	1.4	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	3.963	3.963	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	5.364	5.364	0	%100
57	M71	X	0	0	0	%100

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	5.598	5.598	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	3.157	3.157	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	.858	.858	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	.858	.858	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	1.343	1.343	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	3.951	3.951	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	.988	.988	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	3.963	3.963	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	5.364	5.364	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	5.598	5.598	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	3.963	3.963	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	1.341	1.341	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	1.4	1.4	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	1.042	1.042	0	%100
85	MP3C	X	0	0	0	%100
86	MP3C	Z	3.359	3.359	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C	Z	3.359	3.359	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	3.719	3.719	0	%100
91	MP1C	X	0	0	0	%100
92	MP1C	Z	3.359	3.359	0	%100
93	M91B	X	0	0	0	%100
94	M91B	Z	1.042	1.042	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	3.359	3.359	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	3.359	3.359	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	3.719	3.719	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	3.359	3.359	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	3.719	3.719	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	.93	.93	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	.93	.93	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	.869	.869	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	3.476	3.476	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	.869	.869	0	%100

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-1.564	-1.564	0	%100
2	FACE	Z	2.708	2.708	0	%100
3	M4	X	-.526	-.526	0	%100
4	M4	Z	.911	.911	0	%100
5	M10	X	-1.287	-1.287	0	%100
6	M10	Z	2.229	2.229	0	%100
7	MP3A	X	-1.68	-1.68	0	%100
8	MP3A	Z	2.909	2.909	0	%100
9	MP4A	X	-1.68	-1.68	0	%100
10	MP4A	Z	2.909	2.909	0	%100
11	MP2A	X	-1.86	-1.86	0	%100
12	MP2A	Z	3.221	3.221	0	%100
13	MP1A	X	-1.68	-1.68	0	%100
14	MP1A	Z	2.909	2.909	0	%100
15	M43	X	-1.287	-1.287	0	%100
16	M43	Z	2.229	2.229	0	%100
17	M46	X	-2.015	-2.015	0	%100
18	M46	Z	3.489	3.489	0	%100
19	M51B	X	-1.482	-1.482	0	%100
20	M51B	Z	2.567	2.567	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-.66	-.66	0	%100
24	M76	Z	1.144	1.144	0	%100
25	M77	X	-2.011	-2.011	0	%100
26	M77	Z	3.484	3.484	0	%100
27	M80	X	-2.099	-2.099	0	%100
28	M80	Z	3.636	3.636	0	%100
29	M84	X	-.66	-.66	0	%100
30	M84	Z	1.144	1.144	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-.526	-.526	0	%100
36	M52A	Z	.911	.911	0	%100
37	M53	X	-1.287	-1.287	0	%100
38	M53	Z	2.229	2.229	0	%100
39	M54	X	-1.287	-1.287	0	%100
40	M54	Z	2.229	2.229	0	%100
41	M55	X	-2.015	-2.015	0	%100
42	M55	Z	3.489	3.489	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	-1.482	-1.482	0	%100
46	M59A	Z	2.567	2.567	0	%100
47	M63	X	-.66	-.66	0	%100
48	M63	Z	1.144	1.144	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-.66	-.66	0	%100
54	M68	Z	1.144	1.144	0	%100
55	M69	X	-2.011	-2.011	0	%100
56	M69	Z	3.484	3.484	0	%100
57	M71	X	-2.099	-2.099	0	%100

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	3.636	3.636	0	%100
59	M76A	X	-2.105	-2.105	0	%100
60	M76A	Z	3.645	3.645	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	-1.482	-1.482	0	%100
68	M82	Z	2.567	2.567	0	%100
69	M83A	X	-1.482	-1.482	0	%100
70	M83A	Z	2.567	2.567	0	%100
71	M87	X	-2.642	-2.642	0	%100
72	M87	Z	4.576	4.576	0	%100
73	M88A	X	-2.011	-2.011	0	%100
74	M88A	Z	3.484	3.484	0	%100
75	M90	X	-2.099	-2.099	0	%100
76	M90	Z	3.636	3.636	0	%100
77	M92A	X	-2.642	-2.642	0	%100
78	M92A	Z	4.576	4.576	0	%100
79	M93	X	-2.011	-2.011	0	%100
80	M93	Z	3.484	3.484	0	%100
81	M95	X	-2.099	-2.099	0	%100
82	M95	Z	3.636	3.636	0	%100
83	M82A	X	-1.564	-1.564	0	%100
84	M82A	Z	2.708	2.708	0	%100
85	MP3C	X	-1.68	-1.68	0	%100
86	MP3C	Z	2.909	2.909	0	%100
87	MP4C	X	-1.68	-1.68	0	%100
88	MP4C	Z	2.909	2.909	0	%100
89	MP2C	X	-1.86	-1.86	0	%100
90	MP2C	Z	3.221	3.221	0	%100
91	MP1C	X	-1.68	-1.68	0	%100
92	MP1C	Z	2.909	2.909	0	%100
93	M91B	X	0	0	0	%100
94	M91B	Z	0	0	0	%100
95	MP3B	X	-1.68	-1.68	0	%100
96	MP3B	Z	2.909	2.909	0	%100
97	MP4B	X	-1.68	-1.68	0	%100
98	MP4B	Z	2.909	2.909	0	%100
99	MP2B	X	-1.86	-1.86	0	%100
100	MP2B	Z	3.221	3.221	0	%100
101	MP1B	X	-1.68	-1.68	0	%100
102	MP1B	Z	2.909	2.909	0	%100
103	M104	X	-1.395	-1.395	0	%100
104	M104	Z	2.416	2.416	0	%100
105	M109	X	-1.395	-1.395	0	%100
106	M109	Z	2.416	2.416	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	-1.303	-1.303	0	%100
110	M121	Z	2.258	2.258	0	%100
111	M122	X	-1.303	-1.303	0	%100
112	M122	Z	2.258	2.258	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100

Member Distributed Loads (BLC 61 : Structure Wi (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.903	-.903	0	%100
2	FACE	Z	.521	.521	0	%100
3	M4	X	-2.734	-2.734	0	%100
4	M4	Z	1.578	1.578	0	%100
5	M10	X	-.743	-.743	0	%100
6	M10	Z	.429	.429	0	%100
7	MP3A	X	-2.909	-2.909	0	%100
8	MP3A	Z	1.68	1.68	0	%100
9	MP4A	X	-2.909	-2.909	0	%100
10	MP4A	Z	1.68	1.68	0	%100
11	MP2A	X	-3.221	-3.221	0	%100
12	MP2A	Z	1.86	1.86	0	%100
13	MP1A	X	-2.909	-2.909	0	%100
14	MP1A	Z	1.68	1.68	0	%100
15	M43	X	-.743	-.743	0	%100
16	M43	Z	.429	.429	0	%100
17	M46	X	-1.163	-1.163	0	%100
18	M46	Z	.672	.672	0	%100
19	M51B	X	-3.422	-3.422	0	%100
20	M51B	Z	1.976	1.976	0	%100
21	M52B	X	-.856	-.856	0	%100
22	M52B	Z	.494	.494	0	%100
23	M76	X	-3.432	-3.432	0	%100
24	M76	Z	1.981	1.981	0	%100
25	M77	X	-4.645	-4.645	0	%100
26	M77	Z	2.682	2.682	0	%100
27	M80	X	-4.848	-4.848	0	%100
28	M80	Z	2.799	2.799	0	%100
29	M84	X	-3.432	-3.432	0	%100
30	M84	Z	1.981	1.981	0	%100
31	M85	X	-1.161	-1.161	0	%100
32	M85	Z	.67	.67	0	%100
33	M91	X	-1.212	-1.212	0	%100
34	M91	Z	.7	.7	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-2.972	-2.972	0	%100
38	M53	Z	1.716	1.716	0	%100
39	M54	X	-2.972	-2.972	0	%100
40	M54	Z	1.716	1.716	0	%100
41	M55	X	-4.653	-4.653	0	%100
42	M55	Z	2.686	2.686	0	%100
43	M58A	X	-.856	-.856	0	%100
44	M58A	Z	.494	.494	0	%100
45	M59A	X	-.856	-.856	0	%100
46	M59A	Z	.494	.494	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-1.161	-1.161	0	%100
50	M64	Z	.67	.67	0	%100
51	M66	X	-1.212	-1.212	0	%100
52	M66	Z	.7	.7	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	-1.161	-1.161	0	%100
56	M69	Z	.67	.67	0	%100
57	M71	X	-1.212	-1.212	0	%100

Member Distributed Loads (BLC 61 : Structure Wi (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	.7	.7	0	%100
59	M76A	X	-2.734	-2.734	0	%100
60	M76A	Z	1.578	1.578	0	%100
61	M77A	X	-.743	-.743	0	%100
62	M77A	Z	.429	.429	0	%100
63	M78	X	-.743	-.743	0	%100
64	M78	Z	.429	.429	0	%100
65	M79A	X	-1.163	-1.163	0	%100
66	M79A	Z	.672	.672	0	%100
67	M82	X	-.856	-.856	0	%100
68	M82	Z	.494	.494	0	%100
69	M83A	X	-3.422	-3.422	0	%100
70	M83A	Z	1.976	1.976	0	%100
71	M87	X	-3.432	-3.432	0	%100
72	M87	Z	1.981	1.981	0	%100
73	M88A	X	-1.161	-1.161	0	%100
74	M88A	Z	.67	.67	0	%100
75	M90	X	-1.212	-1.212	0	%100
76	M90	Z	.7	.7	0	%100
77	M92A	X	-3.432	-3.432	0	%100
78	M92A	Z	1.981	1.981	0	%100
79	M93	X	-4.645	-4.645	0	%100
80	M93	Z	2.682	2.682	0	%100
81	M95	X	-4.848	-4.848	0	%100
82	M95	Z	2.799	2.799	0	%100
83	M82A	X	-3.611	-3.611	0	%100
84	M82A	Z	2.085	2.085	0	%100
85	MP3C	X	-2.909	-2.909	0	%100
86	MP3C	Z	1.68	1.68	0	%100
87	MP4C	X	-2.909	-2.909	0	%100
88	MP4C	Z	1.68	1.68	0	%100
89	MP2C	X	-3.221	-3.221	0	%100
90	MP2C	Z	1.86	1.86	0	%100
91	MP1C	X	-2.909	-2.909	0	%100
92	MP1C	Z	1.68	1.68	0	%100
93	M91B	X	-.903	-.903	0	%100
94	M91B	Z	.521	.521	0	%100
95	MP3B	X	-2.909	-2.909	0	%100
96	MP3B	Z	1.68	1.68	0	%100
97	MP4B	X	-2.909	-2.909	0	%100
98	MP4B	Z	1.68	1.68	0	%100
99	MP2B	X	-3.221	-3.221	0	%100
100	MP2B	Z	1.86	1.86	0	%100
101	MP1B	X	-2.909	-2.909	0	%100
102	MP1B	Z	1.68	1.68	0	%100
103	M104	X	-.805	-.805	0	%100
104	M104	Z	.465	.465	0	%100
105	M109	X	-3.221	-3.221	0	%100
106	M109	Z	1.86	1.86	0	%100
107	M114	X	-.805	-.805	0	%100
108	M114	Z	.465	.465	0	%100
109	M121	X	-3.01	-3.01	0	%100
110	M121	Z	1.738	1.738	0	%100
111	M122	X	-.753	-.753	0	%100
112	M122	Z	.434	.434	0	%100
113	M123	X	-.753	-.753	0	%100
114	M123	Z	.434	.434	0	%100

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M4	X	-4.209	-4.209	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-3.359	-3.359	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-3.359	-3.359	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-3.719	-3.719	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-3.359	-3.359	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-2.964	-2.964	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-2.964	-2.964	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-5.284	-5.284	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-4.023	-4.023	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-4.199	-4.199	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-5.284	-5.284	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-4.023	-4.023	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-4.199	-4.199	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-1.052	-1.052	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-2.574	-2.574	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	-2.574	-2.574	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	-4.029	-4.029	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-2.964	-2.964	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	-1.321	-1.321	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-4.023	-4.023	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	-4.199	-4.199	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-1.321	-1.321	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	0	0	0	%100
59	M76A	X	-1.052	-1.052	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-2.574	-2.574	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	-2.574	-2.574	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	-4.029	-4.029	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	-2.964	-2.964	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-1.321	-1.321	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	-1.321	-1.321	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-4.023	-4.023	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	-4.199	-4.199	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	-3.127	-3.127	0	%100
84	M82A	Z	0	0	0	%100
85	MP3C	X	-3.359	-3.359	0	%100
86	MP3C	Z	0	0	0	%100
87	MP4C	X	-3.359	-3.359	0	%100
88	MP4C	Z	0	0	0	%100
89	MP2C	X	-3.719	-3.719	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	-3.359	-3.359	0	%100
92	MP1C	Z	0	0	0	%100
93	M91B	X	-3.127	-3.127	0	%100
94	M91B	Z	0	0	0	%100
95	MP3B	X	-3.359	-3.359	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	-3.359	-3.359	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	-3.719	-3.719	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-3.359	-3.359	0	%100
102	MP1B	Z	0	0	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	0	0	0	%100
105	M109	X	-2.79	-2.79	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	-2.79	-2.79	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	-2.607	-2.607	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	-2.607	-2.607	0	%100
114	M123	Z	0	0	0	%100

Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.903	-.903	0	%100
2	FACE	Z	-.521	-.521	0	%100
3	M4	X	-2.734	-2.734	0	%100
4	M4	Z	-1.578	-1.578	0	%100
5	M10	X	-.743	-.743	0	%100
6	M10	Z	-.429	-.429	0	%100
7	MP3A	X	-2.909	-2.909	0	%100
8	MP3A	Z	-1.68	-1.68	0	%100
9	MP4A	X	-2.909	-2.909	0	%100
10	MP4A	Z	-1.68	-1.68	0	%100
11	MP2A	X	-3.221	-3.221	0	%100
12	MP2A	Z	-1.86	-1.86	0	%100
13	MP1A	X	-2.909	-2.909	0	%100
14	MP1A	Z	-1.68	-1.68	0	%100
15	M43	X	-.743	-.743	0	%100
16	M43	Z	-.429	-.429	0	%100
17	M46	X	-1.163	-1.163	0	%100
18	M46	Z	-.672	-.672	0	%100
19	M51B	X	-.856	-.856	0	%100
20	M51B	Z	-.494	-.494	0	%100
21	M52B	X	-3.422	-3.422	0	%100
22	M52B	Z	-1.976	-1.976	0	%100
23	M76	X	-3.432	-3.432	0	%100
24	M76	Z	-1.981	-1.981	0	%100
25	M77	X	-1.161	-1.161	0	%100
26	M77	Z	-.67	-.67	0	%100
27	M80	X	-1.212	-1.212	0	%100
28	M80	Z	-.7	-.7	0	%100
29	M84	X	-3.432	-3.432	0	%100
30	M84	Z	-1.981	-1.981	0	%100
31	M85	X	-4.645	-4.645	0	%100
32	M85	Z	-2.682	-2.682	0	%100
33	M91	X	-4.848	-4.848	0	%100
34	M91	Z	-2.799	-2.799	0	%100
35	M52A	X	-2.734	-2.734	0	%100
36	M52A	Z	-1.578	-1.578	0	%100
37	M53	X	-.743	-.743	0	%100
38	M53	Z	-.429	-.429	0	%100
39	M54	X	-.743	-.743	0	%100
40	M54	Z	-.429	-.429	0	%100
41	M55	X	-1.163	-1.163	0	%100
42	M55	Z	-.672	-.672	0	%100
43	M58A	X	-3.422	-3.422	0	%100
44	M58A	Z	-1.976	-1.976	0	%100
45	M59A	X	-.856	-.856	0	%100
46	M59A	Z	-.494	-.494	0	%100
47	M63	X	-3.432	-3.432	0	%100
48	M63	Z	-1.981	-1.981	0	%100
49	M64	X	-4.645	-4.645	0	%100
50	M64	Z	-2.682	-2.682	0	%100
51	M66	X	-4.848	-4.848	0	%100
52	M66	Z	-2.799	-2.799	0	%100
53	M68	X	-3.432	-3.432	0	%100
54	M68	Z	-1.981	-1.981	0	%100
55	M69	X	-1.161	-1.161	0	%100
56	M69	Z	-.67	-.67	0	%100
57	M71	X	-1.212	-1.212	0	%100

Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-.7	-.7	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-2.972	-2.972	0	%100
62	M77A	Z	-1.716	-1.716	0	%100
63	M78	X	-2.972	-2.972	0	%100
64	M78	Z	-1.716	-1.716	0	%100
65	M79A	X	-4.653	-4.653	0	%100
66	M79A	Z	-2.686	-2.686	0	%100
67	M82	X	-.856	-.856	0	%100
68	M82	Z	-.494	-.494	0	%100
69	M83A	X	-.856	-.856	0	%100
70	M83A	Z	-.494	-.494	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	-1.161	-1.161	0	%100
74	M88A	Z	-.67	-.67	0	%100
75	M90	X	-1.212	-1.212	0	%100
76	M90	Z	-.7	-.7	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-1.161	-1.161	0	%100
80	M93	Z	-.67	-.67	0	%100
81	M95	X	-1.212	-1.212	0	%100
82	M95	Z	-.7	-.7	0	%100
83	M82A	X	-.903	-.903	0	%100
84	M82A	Z	-.521	-.521	0	%100
85	MP3C	X	-2.909	-2.909	0	%100
86	MP3C	Z	-1.68	-1.68	0	%100
87	MP4C	X	-2.909	-2.909	0	%100
88	MP4C	Z	-1.68	-1.68	0	%100
89	MP2C	X	-3.221	-3.221	0	%100
90	MP2C	Z	-1.86	-1.86	0	%100
91	MP1C	X	-2.909	-2.909	0	%100
92	MP1C	Z	-1.68	-1.68	0	%100
93	M91B	X	-3.611	-3.611	0	%100
94	M91B	Z	-2.085	-2.085	0	%100
95	MP3B	X	-2.909	-2.909	0	%100
96	MP3B	Z	-1.68	-1.68	0	%100
97	MP4B	X	-2.909	-2.909	0	%100
98	MP4B	Z	-1.68	-1.68	0	%100
99	MP2B	X	-3.221	-3.221	0	%100
100	MP2B	Z	-1.86	-1.86	0	%100
101	MP1B	X	-2.909	-2.909	0	%100
102	MP1B	Z	-1.68	-1.68	0	%100
103	M104	X	-.805	-.805	0	%100
104	M104	Z	-.465	-.465	0	%100
105	M109	X	-.805	-.805	0	%100
106	M109	Z	-.465	-.465	0	%100
107	M114	X	-3.221	-3.221	0	%100
108	M114	Z	-1.86	-1.86	0	%100
109	M121	X	-.753	-.753	0	%100
110	M121	Z	-.434	-.434	0	%100
111	M122	X	-.753	-.753	0	%100
112	M122	Z	-.434	-.434	0	%100
113	M123	X	-3.01	-3.01	0	%100
114	M123	Z	-1.738	-1.738	0	%100

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-1.564	-1.564	0	%100
2	FACE	Z	-2.708	-2.708	0	%100
3	M4	X	-.526	-.526	0	%100
4	M4	Z	-.911	-.911	0	%100
5	M10	X	-1.287	-1.287	0	%100
6	M10	Z	-2.229	-2.229	0	%100
7	MP3A	X	-1.68	-1.68	0	%100
8	MP3A	Z	-2.909	-2.909	0	%100
9	MP4A	X	-1.68	-1.68	0	%100
10	MP4A	Z	-2.909	-2.909	0	%100
11	MP2A	X	-1.86	-1.86	0	%100
12	MP2A	Z	-3.221	-3.221	0	%100
13	MP1A	X	-1.68	-1.68	0	%100
14	MP1A	Z	-2.909	-2.909	0	%100
15	M43	X	-1.287	-1.287	0	%100
16	M43	Z	-2.229	-2.229	0	%100
17	M46	X	-2.015	-2.015	0	%100
18	M46	Z	-3.489	-3.489	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-1.482	-1.482	0	%100
22	M52B	Z	-2.567	-2.567	0	%100
23	M76	X	-.66	-.66	0	%100
24	M76	Z	-1.144	-1.144	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-.66	-.66	0	%100
30	M84	Z	-1.144	-1.144	0	%100
31	M85	X	-2.011	-2.011	0	%100
32	M85	Z	-3.484	-3.484	0	%100
33	M91	X	-2.099	-2.099	0	%100
34	M91	Z	-3.636	-3.636	0	%100
35	M52A	X	-2.105	-2.105	0	%100
36	M52A	Z	-3.645	-3.645	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-1.482	-1.482	0	%100
44	M58A	Z	-2.567	-2.567	0	%100
45	M59A	X	-1.482	-1.482	0	%100
46	M59A	Z	-2.567	-2.567	0	%100
47	M63	X	-2.642	-2.642	0	%100
48	M63	Z	-4.576	-4.576	0	%100
49	M64	X	-2.011	-2.011	0	%100
50	M64	Z	-3.484	-3.484	0	%100
51	M66	X	-2.099	-2.099	0	%100
52	M66	Z	-3.636	-3.636	0	%100
53	M68	X	-2.642	-2.642	0	%100
54	M68	Z	-4.576	-4.576	0	%100
55	M69	X	-2.011	-2.011	0	%100
56	M69	Z	-3.484	-3.484	0	%100
57	M71	X	-2.099	-2.099	0	%100

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-3.636	-3.636	0	%100
59	M76A	X	-.526	-.526	0	%100
60	M76A	Z	-.911	-.911	0	%100
61	M77A	X	-1.287	-1.287	0	%100
62	M77A	Z	-2.229	-2.229	0	%100
63	M78	X	-1.287	-1.287	0	%100
64	M78	Z	-2.229	-2.229	0	%100
65	M79A	X	-2.015	-2.015	0	%100
66	M79A	Z	-3.489	-3.489	0	%100
67	M82	X	-1.482	-1.482	0	%100
68	M82	Z	-2.567	-2.567	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-.66	-.66	0	%100
72	M87	Z	-1.144	-1.144	0	%100
73	M88A	X	-2.011	-2.011	0	%100
74	M88A	Z	-3.484	-3.484	0	%100
75	M90	X	-2.099	-2.099	0	%100
76	M90	Z	-3.636	-3.636	0	%100
77	M92A	X	-.66	-.66	0	%100
78	M92A	Z	-1.144	-1.144	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	MP3C	X	-1.68	-1.68	0	%100
86	MP3C	Z	-2.909	-2.909	0	%100
87	MP4C	X	-1.68	-1.68	0	%100
88	MP4C	Z	-2.909	-2.909	0	%100
89	MP2C	X	-1.86	-1.86	0	%100
90	MP2C	Z	-3.221	-3.221	0	%100
91	MP1C	X	-1.68	-1.68	0	%100
92	MP1C	Z	-2.909	-2.909	0	%100
93	M91B	X	-1.564	-1.564	0	%100
94	M91B	Z	-2.708	-2.708	0	%100
95	MP3B	X	-1.68	-1.68	0	%100
96	MP3B	Z	-2.909	-2.909	0	%100
97	MP4B	X	-1.68	-1.68	0	%100
98	MP4B	Z	-2.909	-2.909	0	%100
99	MP2B	X	-1.86	-1.86	0	%100
100	MP2B	Z	-3.221	-3.221	0	%100
101	MP1B	X	-1.68	-1.68	0	%100
102	MP1B	Z	-2.909	-2.909	0	%100
103	M104	X	-1.395	-1.395	0	%100
104	M104	Z	-2.416	-2.416	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	-1.395	-1.395	0	%100
108	M114	Z	-2.416	-2.416	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	-1.303	-1.303	0	%100
112	M122	Z	-2.258	-2.258	0	%100
113	M123	X	-1.303	-1.303	0	%100
114	M123	Z	-2.258	-2.258	0	%100

Member Distributed Loads (BLC 65 : Structure Wm (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	-.867	-.867	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-.78	-.78	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-.616	-.616	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-.616	-.616	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-.746	-.746	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-.616	-.616	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-.78	-.78	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-1.556	-1.556	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-.216	-.216	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-.216	-.216	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	-.396	-.396	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	-.417	-.417	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	-.396	-.396	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	-.417	-.417	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	-.691	-.691	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	-.195	-.195	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	-.195	-.195	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	-.389	-.389	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	-.216	-.216	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	-.864	-.864	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	-1.167	-1.167	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	-.396	-.396	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	-.417	-.417	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	-1.167	-1.167	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	-1.585	-1.585	0	%100
57	M71	X	0	0	0	%100

Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-1.669	-1.669	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	-.691	-.691	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	-.195	-.195	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	-.195	-.195	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	-.389	-.389	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	-.864	-.864	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	-.216	-.216	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	-1.167	-1.167	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	-1.585	-1.585	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	-1.669	-1.669	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	-1.167	-1.167	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	-.396	-.396	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	-.417	-.417	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	-.217	-.217	0	%100
85	MP3C	X	0	0	0	%100
86	MP3C	Z	-.616	-.616	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C	Z	-.616	-.616	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	-.746	-.746	0	%100
91	MP1C	X	0	0	0	%100
92	MP1C	Z	-.616	-.616	0	%100
93	M91B	X	0	0	0	%100
94	M91B	Z	-.217	-.217	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	-.616	-.616	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	-.616	-.616	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-.746	-.746	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-.616	-.616	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	-.746	-.746	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	-.186	-.186	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	-.186	-.186	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	-.214	-.214	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	-.857	-.857	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	-.214	-.214	0	%100

Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.325	.325	0	%100
2	FACE	Z	-.563	-.563	0	%100
3	M4	X	.115	.115	0	%100
4	M4	Z	-.2	-.2	0	%100
5	M10	X	.293	.293	0	%100
6	M10	Z	-.507	-.507	0	%100
7	MP3A	X	.308	.308	0	%100
8	MP3A	Z	-.533	-.533	0	%100
9	MP4A	X	.308	.308	0	%100
10	MP4A	Z	-.533	-.533	0	%100
11	MP2A	X	.373	.373	0	%100
12	MP2A	Z	-.646	-.646	0	%100
13	MP1A	X	.308	.308	0	%100
14	MP1A	Z	-.533	-.533	0	%100
15	M43	X	.293	.293	0	%100
16	M43	Z	-.507	-.507	0	%100
17	M46	X	.583	.583	0	%100
18	M46	Z	-1.011	-1.011	0	%100
19	M51B	X	.324	.324	0	%100
20	M51B	Z	-.561	-.561	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	.194	.194	0	%100
24	M76	Z	-.337	-.337	0	%100
25	M77	X	.594	.594	0	%100
26	M77	Z	-1.029	-1.029	0	%100
27	M80	X	.626	.626	0	%100
28	M80	Z	-1.084	-1.084	0	%100
29	M84	X	.194	.194	0	%100
30	M84	Z	-.337	-.337	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	.115	.115	0	%100
36	M52A	Z	-.2	-.2	0	%100
37	M53	X	.293	.293	0	%100
38	M53	Z	-.507	-.507	0	%100
39	M54	X	.293	.293	0	%100
40	M54	Z	-.507	-.507	0	%100
41	M55	X	.583	.583	0	%100
42	M55	Z	-1.011	-1.011	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	.324	.324	0	%100
46	M59A	Z	-.561	-.561	0	%100
47	M63	X	.194	.194	0	%100
48	M63	Z	-.337	-.337	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	.194	.194	0	%100
54	M68	Z	-.337	-.337	0	%100
55	M69	X	.594	.594	0	%100
56	M69	Z	-1.029	-1.029	0	%100
57	M71	X	.626	.626	0	%100

Member Distributed Loads (BLC 66 : Structure Wm (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-1.084	-1.084	0	%100
59	M76A	X	.461	.461	0	%100
60	M76A	Z	-.798	-.798	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	.324	.324	0	%100
68	M82	Z	-.561	-.561	0	%100
69	M83A	X	.324	.324	0	%100
70	M83A	Z	-.561	-.561	0	%100
71	M87	X	.778	.778	0	%100
72	M87	Z	-1.347	-1.347	0	%100
73	M88A	X	.594	.594	0	%100
74	M88A	Z	-1.029	-1.029	0	%100
75	M90	X	.626	.626	0	%100
76	M90	Z	-1.084	-1.084	0	%100
77	M92A	X	.778	.778	0	%100
78	M92A	Z	-1.347	-1.347	0	%100
79	M93	X	.594	.594	0	%100
80	M93	Z	-1.029	-1.029	0	%100
81	M95	X	.626	.626	0	%100
82	M95	Z	-1.084	-1.084	0	%100
83	M82A	X	.325	.325	0	%100
84	M82A	Z	-.563	-.563	0	%100
85	MP3C	X	.308	.308	0	%100
86	MP3C	Z	-.533	-.533	0	%100
87	MP4C	X	.308	.308	0	%100
88	MP4C	Z	-.533	-.533	0	%100
89	MP2C	X	.373	.373	0	%100
90	MP2C	Z	-.646	-.646	0	%100
91	MP1C	X	.308	.308	0	%100
92	MP1C	Z	-.533	-.533	0	%100
93	M91B	X	0	0	0	%100
94	M91B	Z	0	0	0	%100
95	MP3B	X	.308	.308	0	%100
96	MP3B	Z	-.533	-.533	0	%100
97	MP4B	X	.308	.308	0	%100
98	MP4B	Z	-.533	-.533	0	%100
99	MP2B	X	.373	.373	0	%100
100	MP2B	Z	-.646	-.646	0	%100
101	MP1B	X	.308	.308	0	%100
102	MP1B	Z	-.533	-.533	0	%100
103	M104	X	.28	.28	0	%100
104	M104	Z	-.484	-.484	0	%100
105	M109	X	.28	.28	0	%100
106	M109	Z	-.484	-.484	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	.321	.321	0	%100
110	M121	Z	-.557	-.557	0	%100
111	M122	X	.321	.321	0	%100
112	M122	Z	-.557	-.557	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.188	.188	0	%100
2	FACE	Z	-.108	-.108	0	%100
3	M4	X	.599	.599	0	%100
4	M4	Z	-.346	-.346	0	%100
5	M10	X	.169	.169	0	%100
6	M10	Z	-.098	-.098	0	%100
7	MP3A	X	.533	.533	0	%100
8	MP3A	Z	-.308	-.308	0	%100
9	MP4A	X	.533	.533	0	%100
10	MP4A	Z	-.308	-.308	0	%100
11	MP2A	X	.646	.646	0	%100
12	MP2A	Z	-.373	-.373	0	%100
13	MP1A	X	.533	.533	0	%100
14	MP1A	Z	-.308	-.308	0	%100
15	M43	X	.169	.169	0	%100
16	M43	Z	-.098	-.098	0	%100
17	M46	X	.337	.337	0	%100
18	M46	Z	-.194	-.194	0	%100
19	M51B	X	.748	.748	0	%100
20	M51B	Z	-.432	-.432	0	%100
21	M52B	X	.187	.187	0	%100
22	M52B	Z	-.108	-.108	0	%100
23	M76	X	1.011	1.011	0	%100
24	M76	Z	-.583	-.583	0	%100
25	M77	X	1.372	1.372	0	%100
26	M77	Z	-.792	-.792	0	%100
27	M80	X	1.446	1.446	0	%100
28	M80	Z	-.835	-.835	0	%100
29	M84	X	1.011	1.011	0	%100
30	M84	Z	-.583	-.583	0	%100
31	M85	X	.343	.343	0	%100
32	M85	Z	-.198	-.198	0	%100
33	M91	X	.361	.361	0	%100
34	M91	Z	-.209	-.209	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	.676	.676	0	%100
38	M53	Z	-.39	-.39	0	%100
39	M54	X	.676	.676	0	%100
40	M54	Z	-.39	-.39	0	%100
41	M55	X	1.347	1.347	0	%100
42	M55	Z	-.778	-.778	0	%100
43	M58A	X	.187	.187	0	%100
44	M58A	Z	-.108	-.108	0	%100
45	M59A	X	.187	.187	0	%100
46	M59A	Z	-.108	-.108	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	.343	.343	0	%100
50	M64	Z	-.198	-.198	0	%100
51	M66	X	.361	.361	0	%100
52	M66	Z	-.209	-.209	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	.343	.343	0	%100
56	M69	Z	-.198	-.198	0	%100
57	M71	X	.361	.361	0	%100

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-.209	-.209	0	%100
59	M76A	X	.599	.599	0	%100
60	M76A	Z	-.346	-.346	0	%100
61	M77A	X	.169	.169	0	%100
62	M77A	Z	-.098	-.098	0	%100
63	M78	X	.169	.169	0	%100
64	M78	Z	-.098	-.098	0	%100
65	M79A	X	.337	.337	0	%100
66	M79A	Z	-.194	-.194	0	%100
67	M82	X	.187	.187	0	%100
68	M82	Z	-.108	-.108	0	%100
69	M83A	X	.748	.748	0	%100
70	M83A	Z	-.432	-.432	0	%100
71	M87	X	1.011	1.011	0	%100
72	M87	Z	-.583	-.583	0	%100
73	M88A	X	.343	.343	0	%100
74	M88A	Z	-.198	-.198	0	%100
75	M90	X	.361	.361	0	%100
76	M90	Z	-.209	-.209	0	%100
77	M92A	X	1.011	1.011	0	%100
78	M92A	Z	-.583	-.583	0	%100
79	M93	X	1.372	1.372	0	%100
80	M93	Z	-.792	-.792	0	%100
81	M95	X	1.446	1.446	0	%100
82	M95	Z	-.835	-.835	0	%100
83	M82A	X	.751	.751	0	%100
84	M82A	Z	-.434	-.434	0	%100
85	MP3C	X	.533	.533	0	%100
86	MP3C	Z	-.308	-.308	0	%100
87	MP4C	X	.533	.533	0	%100
88	MP4C	Z	-.308	-.308	0	%100
89	MP2C	X	.646	.646	0	%100
90	MP2C	Z	-.373	-.373	0	%100
91	MP1C	X	.533	.533	0	%100
92	MP1C	Z	-.308	-.308	0	%100
93	M91B	X	.188	.188	0	%100
94	M91B	Z	-.108	-.108	0	%100
95	MP3B	X	.533	.533	0	%100
96	MP3B	Z	-.308	-.308	0	%100
97	MP4B	X	.533	.533	0	%100
98	MP4B	Z	-.308	-.308	0	%100
99	MP2B	X	.646	.646	0	%100
100	MP2B	Z	-.373	-.373	0	%100
101	MP1B	X	.533	.533	0	%100
102	MP1B	Z	-.308	-.308	0	%100
103	M104	X	.161	.161	0	%100
104	M104	Z	-.093	-.093	0	%100
105	M109	X	.646	.646	0	%100
106	M109	Z	-.373	-.373	0	%100
107	M114	X	.161	.161	0	%100
108	M114	Z	-.093	-.093	0	%100
109	M121	X	.742	.742	0	%100
110	M121	Z	-.429	-.429	0	%100
111	M122	X	.186	.186	0	%100
112	M122	Z	-.107	-.107	0	%100
113	M123	X	.186	.186	0	%100
114	M123	Z	-.107	-.107	0	%100

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M4	X	.922	.922	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	.616	.616	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	.616	.616	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	.746	.746	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	.616	.616	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	.648	.648	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	.648	.648	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	1.556	1.556	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	1.189	1.189	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	1.252	1.252	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	1.556	1.556	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	1.189	1.189	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	1.252	1.252	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	.23	.23	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	.585	.585	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	.585	.585	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	1.167	1.167	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	.648	.648	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	.389	.389	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	1.189	1.189	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	1.252	1.252	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	.389	.389	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	0	0	0	%100
59	M76A	X	.23	.23	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	.585	.585	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	.585	.585	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	1.167	1.167	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	.648	.648	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	.389	.389	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	.389	.389	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	1.189	1.189	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	1.252	1.252	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	.65	.65	0	%100
84	M82A	Z	0	0	0	%100
85	MP3C	X	.616	.616	0	%100
86	MP3C	Z	0	0	0	%100
87	MP4C	X	.616	.616	0	%100
88	MP4C	Z	0	0	0	%100
89	MP2C	X	.746	.746	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	.616	.616	0	%100
92	MP1C	Z	0	0	0	%100
93	M91B	X	.65	.65	0	%100
94	M91B	Z	0	0	0	%100
95	MP3B	X	.616	.616	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	.616	.616	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	.746	.746	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	.616	.616	0	%100
102	MP1B	Z	0	0	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	0	0	0	%100
105	M109	X	.559	.559	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	.559	.559	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	.643	.643	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	.643	.643	0	%100
114	M123	Z	0	0	0	%100

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.188	.188	0	%100
2	FACE	Z	.108	.108	0	%100
3	M4	X	.599	.599	0	%100
4	M4	Z	.346	.346	0	%100
5	M10	X	.169	.169	0	%100
6	M10	Z	.098	.098	0	%100
7	MP3A	X	.533	.533	0	%100
8	MP3A	Z	.308	.308	0	%100
9	MP4A	X	.533	.533	0	%100
10	MP4A	Z	.308	.308	0	%100
11	MP2A	X	.646	.646	0	%100
12	MP2A	Z	.373	.373	0	%100
13	MP1A	X	.533	.533	0	%100
14	MP1A	Z	.308	.308	0	%100
15	M43	X	.169	.169	0	%100
16	M43	Z	.098	.098	0	%100
17	M46	X	.337	.337	0	%100
18	M46	Z	.194	.194	0	%100
19	M51B	X	.187	.187	0	%100
20	M51B	Z	.108	.108	0	%100
21	M52B	X	.748	.748	0	%100
22	M52B	Z	.432	.432	0	%100
23	M76	X	1.011	1.011	0	%100
24	M76	Z	.583	.583	0	%100
25	M77	X	.343	.343	0	%100
26	M77	Z	.198	.198	0	%100
27	M80	X	.361	.361	0	%100
28	M80	Z	.209	.209	0	%100
29	M84	X	1.011	1.011	0	%100
30	M84	Z	.583	.583	0	%100
31	M85	X	1.372	1.372	0	%100
32	M85	Z	.792	.792	0	%100
33	M91	X	1.446	1.446	0	%100
34	M91	Z	.835	.835	0	%100
35	M52A	X	.599	.599	0	%100
36	M52A	Z	.346	.346	0	%100
37	M53	X	.169	.169	0	%100
38	M53	Z	.098	.098	0	%100
39	M54	X	.169	.169	0	%100
40	M54	Z	.098	.098	0	%100
41	M55	X	.337	.337	0	%100
42	M55	Z	.194	.194	0	%100
43	M58A	X	.748	.748	0	%100
44	M58A	Z	.432	.432	0	%100
45	M59A	X	.187	.187	0	%100
46	M59A	Z	.108	.108	0	%100
47	M63	X	1.011	1.011	0	%100
48	M63	Z	.583	.583	0	%100
49	M64	X	1.372	1.372	0	%100
50	M64	Z	.792	.792	0	%100
51	M66	X	1.446	1.446	0	%100
52	M66	Z	.835	.835	0	%100
53	M68	X	1.011	1.011	0	%100
54	M68	Z	.583	.583	0	%100
55	M69	X	.343	.343	0	%100
56	M69	Z	.198	.198	0	%100
57	M71	X	.361	.361	0	%100

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	.209	.209	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	.676	.676	0	%100
62	M77A	Z	.39	.39	0	%100
63	M78	X	.676	.676	0	%100
64	M78	Z	.39	.39	0	%100
65	M79A	X	1.347	1.347	0	%100
66	M79A	Z	.778	.778	0	%100
67	M82	X	.187	.187	0	%100
68	M82	Z	.108	.108	0	%100
69	M83A	X	.187	.187	0	%100
70	M83A	Z	.108	.108	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	.343	.343	0	%100
74	M88A	Z	.198	.198	0	%100
75	M90	X	.361	.361	0	%100
76	M90	Z	.209	.209	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	.343	.343	0	%100
80	M93	Z	.198	.198	0	%100
81	M95	X	.361	.361	0	%100
82	M95	Z	.209	.209	0	%100
83	M82A	X	.188	.188	0	%100
84	M82A	Z	.108	.108	0	%100
85	MP3C	X	.533	.533	0	%100
86	MP3C	Z	.308	.308	0	%100
87	MP4C	X	.533	.533	0	%100
88	MP4C	Z	.308	.308	0	%100
89	MP2C	X	.646	.646	0	%100
90	MP2C	Z	.373	.373	0	%100
91	MP1C	X	.533	.533	0	%100
92	MP1C	Z	.308	.308	0	%100
93	M91B	X	.751	.751	0	%100
94	M91B	Z	.434	.434	0	%100
95	MP3B	X	.533	.533	0	%100
96	MP3B	Z	.308	.308	0	%100
97	MP4B	X	.533	.533	0	%100
98	MP4B	Z	.308	.308	0	%100
99	MP2B	X	.646	.646	0	%100
100	MP2B	Z	.373	.373	0	%100
101	MP1B	X	.533	.533	0	%100
102	MP1B	Z	.308	.308	0	%100
103	M104	X	.161	.161	0	%100
104	M104	Z	.093	.093	0	%100
105	M109	X	.161	.161	0	%100
106	M109	Z	.093	.093	0	%100
107	M114	X	.646	.646	0	%100
108	M114	Z	.373	.373	0	%100
109	M121	X	.186	.186	0	%100
110	M121	Z	.107	.107	0	%100
111	M122	X	.186	.186	0	%100
112	M122	Z	.107	.107	0	%100
113	M123	X	.742	.742	0	%100
114	M123	Z	.429	.429	0	%100

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.325	.325	0	%100
2	FACE	Z	.563	.563	0	%100
3	M4	X	.115	.115	0	%100
4	M4	Z	.2	.2	0	%100
5	M10	X	.293	.293	0	%100
6	M10	Z	.507	.507	0	%100
7	MP3A	X	.308	.308	0	%100
8	MP3A	Z	.533	.533	0	%100
9	MP4A	X	.308	.308	0	%100
10	MP4A	Z	.533	.533	0	%100
11	MP2A	X	.373	.373	0	%100
12	MP2A	Z	.646	.646	0	%100
13	MP1A	X	.308	.308	0	%100
14	MP1A	Z	.533	.533	0	%100
15	M43	X	.293	.293	0	%100
16	M43	Z	.507	.507	0	%100
17	M46	X	.583	.583	0	%100
18	M46	Z	1.011	1.011	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	.324	.324	0	%100
22	M52B	Z	.561	.561	0	%100
23	M76	X	.194	.194	0	%100
24	M76	Z	.337	.337	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	.194	.194	0	%100
30	M84	Z	.337	.337	0	%100
31	M85	X	.594	.594	0	%100
32	M85	Z	1.029	1.029	0	%100
33	M91	X	.626	.626	0	%100
34	M91	Z	1.084	1.084	0	%100
35	M52A	X	.461	.461	0	%100
36	M52A	Z	.798	.798	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	.324	.324	0	%100
44	M58A	Z	.561	.561	0	%100
45	M59A	X	.324	.324	0	%100
46	M59A	Z	.561	.561	0	%100
47	M63	X	.778	.778	0	%100
48	M63	Z	1.347	1.347	0	%100
49	M64	X	.594	.594	0	%100
50	M64	Z	1.029	1.029	0	%100
51	M66	X	.626	.626	0	%100
52	M66	Z	1.084	1.084	0	%100
53	M68	X	.778	.778	0	%100
54	M68	Z	1.347	1.347	0	%100
55	M69	X	.594	.594	0	%100
56	M69	Z	1.029	1.029	0	%100
57	M71	X	.626	.626	0	%100

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	1.084	1.084	0	%100
59	M76A	X	.115	.115	0	%100
60	M76A	Z	.2	.2	0	%100
61	M77A	X	.293	.293	0	%100
62	M77A	Z	.507	.507	0	%100
63	M78	X	.293	.293	0	%100
64	M78	Z	.507	.507	0	%100
65	M79A	X	.583	.583	0	%100
66	M79A	Z	1.011	1.011	0	%100
67	M82	X	.324	.324	0	%100
68	M82	Z	.561	.561	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	.194	.194	0	%100
72	M87	Z	.337	.337	0	%100
73	M88A	X	.594	.594	0	%100
74	M88A	Z	1.029	1.029	0	%100
75	M90	X	.626	.626	0	%100
76	M90	Z	1.084	1.084	0	%100
77	M92A	X	.194	.194	0	%100
78	M92A	Z	.337	.337	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	MP3C	X	.308	.308	0	%100
86	MP3C	Z	.533	.533	0	%100
87	MP4C	X	.308	.308	0	%100
88	MP4C	Z	.533	.533	0	%100
89	MP2C	X	.373	.373	0	%100
90	MP2C	Z	.646	.646	0	%100
91	MP1C	X	.308	.308	0	%100
92	MP1C	Z	.533	.533	0	%100
93	M91B	X	.325	.325	0	%100
94	M91B	Z	.563	.563	0	%100
95	MP3B	X	.308	.308	0	%100
96	MP3B	Z	.533	.533	0	%100
97	MP4B	X	.308	.308	0	%100
98	MP4B	Z	.533	.533	0	%100
99	MP2B	X	.373	.373	0	%100
100	MP2B	Z	.646	.646	0	%100
101	MP1B	X	.308	.308	0	%100
102	MP1B	Z	.533	.533	0	%100
103	M104	X	.28	.28	0	%100
104	M104	Z	.484	.484	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	.28	.28	0	%100
108	M114	Z	.484	.484	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	.321	.321	0	%100
112	M122	Z	.557	.557	0	%100
113	M123	X	.321	.321	0	%100
114	M123	Z	.557	.557	0	%100

Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	.867	.867	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	.78	.78	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	.616	.616	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	.616	.616	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	.746	.746	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	.616	.616	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	.78	.78	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	1.556	1.556	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	.216	.216	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	.216	.216	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	.396	.396	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	.417	.417	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	.396	.396	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	.417	.417	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	.691	.691	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	.195	.195	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	.195	.195	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	.389	.389	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	.216	.216	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	.864	.864	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	1.167	1.167	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	.396	.396	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	.417	.417	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	1.167	1.167	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	1.585	1.585	0	%100
57	M71	X	0	0	0	%100

Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	1.669	1.669	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	.691	.691	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	.195	.195	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	.195	.195	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	.389	.389	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	.864	.864	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	.216	.216	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	1.167	1.167	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	1.585	1.585	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	1.669	1.669	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	1.167	1.167	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	.396	.396	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	.417	.417	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	.217	.217	0	%100
85	MP3C	X	0	0	0	%100
86	MP3C	Z	.616	.616	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C	Z	.616	.616	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	.746	.746	0	%100
91	MP1C	X	0	0	0	%100
92	MP1C	Z	.616	.616	0	%100
93	M91B	X	0	0	0	%100
94	M91B	Z	.217	.217	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	.616	.616	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	.616	.616	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	.746	.746	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	.616	.616	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	.746	.746	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	.186	.186	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	.186	.186	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	.214	.214	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	.857	.857	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	.214	.214	0	%100

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.325	-.325	0	%100
2	FACE	Z	.563	.563	0	%100
3	M4	X	-.115	-.115	0	%100
4	M4	Z	.2	.2	0	%100
5	M10	X	-.293	-.293	0	%100
6	M10	Z	.507	.507	0	%100
7	MP3A	X	-.308	-.308	0	%100
8	MP3A	Z	.533	.533	0	%100
9	MP4A	X	-.308	-.308	0	%100
10	MP4A	Z	.533	.533	0	%100
11	MP2A	X	-.373	-.373	0	%100
12	MP2A	Z	.646	.646	0	%100
13	MP1A	X	-.308	-.308	0	%100
14	MP1A	Z	.533	.533	0	%100
15	M43	X	-.293	-.293	0	%100
16	M43	Z	.507	.507	0	%100
17	M46	X	-.583	-.583	0	%100
18	M46	Z	1.011	1.011	0	%100
19	M51B	X	-.324	-.324	0	%100
20	M51B	Z	.561	.561	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-.194	-.194	0	%100
24	M76	Z	.337	.337	0	%100
25	M77	X	-.594	-.594	0	%100
26	M77	Z	1.029	1.029	0	%100
27	M80	X	-.626	-.626	0	%100
28	M80	Z	1.084	1.084	0	%100
29	M84	X	-.194	-.194	0	%100
30	M84	Z	.337	.337	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-.115	-.115	0	%100
36	M52A	Z	.2	.2	0	%100
37	M53	X	-.293	-.293	0	%100
38	M53	Z	.507	.507	0	%100
39	M54	X	-.293	-.293	0	%100
40	M54	Z	.507	.507	0	%100
41	M55	X	-.583	-.583	0	%100
42	M55	Z	1.011	1.011	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	-.324	-.324	0	%100
46	M59A	Z	.561	.561	0	%100
47	M63	X	-.194	-.194	0	%100
48	M63	Z	.337	.337	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-.194	-.194	0	%100
54	M68	Z	.337	.337	0	%100
55	M69	X	-.594	-.594	0	%100
56	M69	Z	1.029	1.029	0	%100
57	M71	X	-.626	-.626	0	%100

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	1.084	1.084	0	%100
59	M76A	X	-.461	-.461	0	%100
60	M76A	Z	.798	.798	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	-.324	-.324	0	%100
68	M82	Z	.561	.561	0	%100
69	M83A	X	-.324	-.324	0	%100
70	M83A	Z	.561	.561	0	%100
71	M87	X	-.778	-.778	0	%100
72	M87	Z	1.347	1.347	0	%100
73	M88A	X	-.594	-.594	0	%100
74	M88A	Z	1.029	1.029	0	%100
75	M90	X	-.626	-.626	0	%100
76	M90	Z	1.084	1.084	0	%100
77	M92A	X	-.778	-.778	0	%100
78	M92A	Z	1.347	1.347	0	%100
79	M93	X	-.594	-.594	0	%100
80	M93	Z	1.029	1.029	0	%100
81	M95	X	-.626	-.626	0	%100
82	M95	Z	1.084	1.084	0	%100
83	M82A	X	-.325	-.325	0	%100
84	M82A	Z	.563	.563	0	%100
85	MP3C	X	-.308	-.308	0	%100
86	MP3C	Z	.533	.533	0	%100
87	MP4C	X	-.308	-.308	0	%100
88	MP4C	Z	.533	.533	0	%100
89	MP2C	X	-.373	-.373	0	%100
90	MP2C	Z	.646	.646	0	%100
91	MP1C	X	-.308	-.308	0	%100
92	MP1C	Z	.533	.533	0	%100
93	M91B	X	0	0	0	%100
94	M91B	Z	0	0	0	%100
95	MP3B	X	-.308	-.308	0	%100
96	MP3B	Z	.533	.533	0	%100
97	MP4B	X	-.308	-.308	0	%100
98	MP4B	Z	.533	.533	0	%100
99	MP2B	X	-.373	-.373	0	%100
100	MP2B	Z	.646	.646	0	%100
101	MP1B	X	-.308	-.308	0	%100
102	MP1B	Z	.533	.533	0	%100
103	M104	X	-.28	-.28	0	%100
104	M104	Z	.484	.484	0	%100
105	M109	X	-.28	-.28	0	%100
106	M109	Z	.484	.484	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	-.321	-.321	0	%100
110	M121	Z	.557	.557	0	%100
111	M122	X	-.321	-.321	0	%100
112	M122	Z	.557	.557	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100

Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.188	-.188	0	%100
2	FACE	Z	.108	.108	0	%100
3	M4	X	-.599	-.599	0	%100
4	M4	Z	.346	.346	0	%100
5	M10	X	-.169	-.169	0	%100
6	M10	Z	.098	.098	0	%100
7	MP3A	X	-.533	-.533	0	%100
8	MP3A	Z	.308	.308	0	%100
9	MP4A	X	-.533	-.533	0	%100
10	MP4A	Z	.308	.308	0	%100
11	MP2A	X	-.646	-.646	0	%100
12	MP2A	Z	.373	.373	0	%100
13	MP1A	X	-.533	-.533	0	%100
14	MP1A	Z	.308	.308	0	%100
15	M43	X	-.169	-.169	0	%100
16	M43	Z	.098	.098	0	%100
17	M46	X	-.337	-.337	0	%100
18	M46	Z	.194	.194	0	%100
19	M51B	X	-.748	-.748	0	%100
20	M51B	Z	.432	.432	0	%100
21	M52B	X	-.187	-.187	0	%100
22	M52B	Z	.108	.108	0	%100
23	M76	X	-1.011	-1.011	0	%100
24	M76	Z	.583	.583	0	%100
25	M77	X	-1.372	-1.372	0	%100
26	M77	Z	.792	.792	0	%100
27	M80	X	-1.446	-1.446	0	%100
28	M80	Z	.835	.835	0	%100
29	M84	X	-1.011	-1.011	0	%100
30	M84	Z	.583	.583	0	%100
31	M85	X	-.343	-.343	0	%100
32	M85	Z	.198	.198	0	%100
33	M91	X	-.361	-.361	0	%100
34	M91	Z	.209	.209	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-.676	-.676	0	%100
38	M53	Z	.39	.39	0	%100
39	M54	X	-.676	-.676	0	%100
40	M54	Z	.39	.39	0	%100
41	M55	X	-1.347	-1.347	0	%100
42	M55	Z	.778	.778	0	%100
43	M58A	X	-.187	-.187	0	%100
44	M58A	Z	.108	.108	0	%100
45	M59A	X	-.187	-.187	0	%100
46	M59A	Z	.108	.108	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-.343	-.343	0	%100
50	M64	Z	.198	.198	0	%100
51	M66	X	-.361	-.361	0	%100
52	M66	Z	.209	.209	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	-.343	-.343	0	%100
56	M69	Z	.198	.198	0	%100
57	M71	X	-.361	-.361	0	%100

Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	.209	.209	0	%100
59	M76A	X	-.599	-.599	0	%100
60	M76A	Z	.346	.346	0	%100
61	M77A	X	-.169	-.169	0	%100
62	M77A	Z	.098	.098	0	%100
63	M78	X	-.169	-.169	0	%100
64	M78	Z	.098	.098	0	%100
65	M79A	X	-.337	-.337	0	%100
66	M79A	Z	.194	.194	0	%100
67	M82	X	-.187	-.187	0	%100
68	M82	Z	.108	.108	0	%100
69	M83A	X	-.748	-.748	0	%100
70	M83A	Z	.432	.432	0	%100
71	M87	X	-1.011	-1.011	0	%100
72	M87	Z	.583	.583	0	%100
73	M88A	X	-.343	-.343	0	%100
74	M88A	Z	.198	.198	0	%100
75	M90	X	-.361	-.361	0	%100
76	M90	Z	.209	.209	0	%100
77	M92A	X	-1.011	-1.011	0	%100
78	M92A	Z	.583	.583	0	%100
79	M93	X	-1.372	-1.372	0	%100
80	M93	Z	.792	.792	0	%100
81	M95	X	-1.446	-1.446	0	%100
82	M95	Z	.835	.835	0	%100
83	M82A	X	-.751	-.751	0	%100
84	M82A	Z	.434	.434	0	%100
85	MP3C	X	-.533	-.533	0	%100
86	MP3C	Z	.308	.308	0	%100
87	MP4C	X	-.533	-.533	0	%100
88	MP4C	Z	.308	.308	0	%100
89	MP2C	X	-.646	-.646	0	%100
90	MP2C	Z	.373	.373	0	%100
91	MP1C	X	-.533	-.533	0	%100
92	MP1C	Z	.308	.308	0	%100
93	M91B	X	-.188	-.188	0	%100
94	M91B	Z	.108	.108	0	%100
95	MP3B	X	-.533	-.533	0	%100
96	MP3B	Z	.308	.308	0	%100
97	MP4B	X	-.533	-.533	0	%100
98	MP4B	Z	.308	.308	0	%100
99	MP2B	X	-.646	-.646	0	%100
100	MP2B	Z	.373	.373	0	%100
101	MP1B	X	-.533	-.533	0	%100
102	MP1B	Z	.308	.308	0	%100
103	M104	X	-.161	-.161	0	%100
104	M104	Z	.093	.093	0	%100
105	M109	X	-.646	-.646	0	%100
106	M109	Z	.373	.373	0	%100
107	M114	X	-.161	-.161	0	%100
108	M114	Z	.093	.093	0	%100
109	M121	X	-.742	-.742	0	%100
110	M121	Z	.429	.429	0	%100
111	M122	X	-.186	-.186	0	%100
112	M122	Z	.107	.107	0	%100
113	M123	X	-.186	-.186	0	%100
114	M123	Z	.107	.107	0	%100

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M4	X	-.922	-.922	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-.616	-.616	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-.616	-.616	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-.746	-.746	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-.616	-.616	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-.648	-.648	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-.648	-.648	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-1.556	-1.556	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-1.189	-1.189	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-1.252	-1.252	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-1.556	-1.556	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-1.189	-1.189	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-1.252	-1.252	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-.23	-.23	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-.585	-.585	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	-.585	-.585	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	-1.167	-1.167	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-.648	-.648	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	-.389	-.389	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-1.189	-1.189	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	-1.252	-1.252	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-.389	-.389	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	0	0	0	%100
59	M76A	X	-.23	-.23	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-.585	-.585	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	-.585	-.585	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	-1.167	-1.167	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	-.648	-.648	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-.389	-.389	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	-.389	-.389	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-1.189	-1.189	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	-1.252	-1.252	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	-.65	-.65	0	%100
84	M82A	Z	0	0	0	%100
85	MP3C	X	-.616	-.616	0	%100
86	MP3C	Z	0	0	0	%100
87	MP4C	X	-.616	-.616	0	%100
88	MP4C	Z	0	0	0	%100
89	MP2C	X	-.746	-.746	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	-.616	-.616	0	%100
92	MP1C	Z	0	0	0	%100
93	M91B	X	-.65	-.65	0	%100
94	M91B	Z	0	0	0	%100
95	MP3B	X	-.616	-.616	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	-.616	-.616	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	-.746	-.746	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-.616	-.616	0	%100
102	MP1B	Z	0	0	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	0	0	0	%100
105	M109	X	-.559	-.559	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	-.559	-.559	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	-.643	-.643	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	-.643	-.643	0	%100
114	M123	Z	0	0	0	%100

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.188	-.188	0	%100
2	FACE	Z	-.108	-.108	0	%100
3	M4	X	-.599	-.599	0	%100
4	M4	Z	-.346	-.346	0	%100
5	M10	X	-.169	-.169	0	%100
6	M10	Z	-.098	-.098	0	%100
7	MP3A	X	-.533	-.533	0	%100
8	MP3A	Z	-.308	-.308	0	%100
9	MP4A	X	-.533	-.533	0	%100
10	MP4A	Z	-.308	-.308	0	%100
11	MP2A	X	-.646	-.646	0	%100
12	MP2A	Z	-.373	-.373	0	%100
13	MP1A	X	-.533	-.533	0	%100
14	MP1A	Z	-.308	-.308	0	%100
15	M43	X	-.169	-.169	0	%100
16	M43	Z	-.098	-.098	0	%100
17	M46	X	-.337	-.337	0	%100
18	M46	Z	-.194	-.194	0	%100
19	M51B	X	-.187	-.187	0	%100
20	M51B	Z	-.108	-.108	0	%100
21	M52B	X	-.748	-.748	0	%100
22	M52B	Z	-.432	-.432	0	%100
23	M76	X	-1.011	-1.011	0	%100
24	M76	Z	-.583	-.583	0	%100
25	M77	X	-.343	-.343	0	%100
26	M77	Z	-.198	-.198	0	%100
27	M80	X	-.361	-.361	0	%100
28	M80	Z	-.209	-.209	0	%100
29	M84	X	-1.011	-1.011	0	%100
30	M84	Z	-.583	-.583	0	%100
31	M85	X	-1.372	-1.372	0	%100
32	M85	Z	-.792	-.792	0	%100
33	M91	X	-1.446	-1.446	0	%100
34	M91	Z	-.835	-.835	0	%100
35	M52A	X	-.599	-.599	0	%100
36	M52A	Z	-.346	-.346	0	%100
37	M53	X	-.169	-.169	0	%100
38	M53	Z	-.098	-.098	0	%100
39	M54	X	-.169	-.169	0	%100
40	M54	Z	-.098	-.098	0	%100
41	M55	X	-.337	-.337	0	%100
42	M55	Z	-.194	-.194	0	%100
43	M58A	X	-.748	-.748	0	%100
44	M58A	Z	-.432	-.432	0	%100
45	M59A	X	-.187	-.187	0	%100
46	M59A	Z	-.108	-.108	0	%100
47	M63	X	-1.011	-1.011	0	%100
48	M63	Z	-.583	-.583	0	%100
49	M64	X	-1.372	-1.372	0	%100
50	M64	Z	-.792	-.792	0	%100
51	M66	X	-1.446	-1.446	0	%100
52	M66	Z	-.835	-.835	0	%100
53	M68	X	-1.011	-1.011	0	%100
54	M68	Z	-.583	-.583	0	%100
55	M69	X	-.343	-.343	0	%100
56	M69	Z	-.198	-.198	0	%100
57	M71	X	-.361	-.361	0	%100

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-.209	-.209	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-.676	-.676	0	%100
62	M77A	Z	-.39	-.39	0	%100
63	M78	X	-.676	-.676	0	%100
64	M78	Z	-.39	-.39	0	%100
65	M79A	X	-1.347	-1.347	0	%100
66	M79A	Z	-.778	-.778	0	%100
67	M82	X	-.187	-.187	0	%100
68	M82	Z	-.108	-.108	0	%100
69	M83A	X	-.187	-.187	0	%100
70	M83A	Z	-.108	-.108	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	-.343	-.343	0	%100
74	M88A	Z	-.198	-.198	0	%100
75	M90	X	-.361	-.361	0	%100
76	M90	Z	-.209	-.209	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-.343	-.343	0	%100
80	M93	Z	-.198	-.198	0	%100
81	M95	X	-.361	-.361	0	%100
82	M95	Z	-.209	-.209	0	%100
83	M82A	X	-.188	-.188	0	%100
84	M82A	Z	-.108	-.108	0	%100
85	MP3C	X	-.533	-.533	0	%100
86	MP3C	Z	-.308	-.308	0	%100
87	MP4C	X	-.533	-.533	0	%100
88	MP4C	Z	-.308	-.308	0	%100
89	MP2C	X	-.646	-.646	0	%100
90	MP2C	Z	-.373	-.373	0	%100
91	MP1C	X	-.533	-.533	0	%100
92	MP1C	Z	-.308	-.308	0	%100
93	M91B	X	-.751	-.751	0	%100
94	M91B	Z	-.434	-.434	0	%100
95	MP3B	X	-.533	-.533	0	%100
96	MP3B	Z	-.308	-.308	0	%100
97	MP4B	X	-.533	-.533	0	%100
98	MP4B	Z	-.308	-.308	0	%100
99	MP2B	X	-.646	-.646	0	%100
100	MP2B	Z	-.373	-.373	0	%100
101	MP1B	X	-.533	-.533	0	%100
102	MP1B	Z	-.308	-.308	0	%100
103	M104	X	-.161	-.161	0	%100
104	M104	Z	-.093	-.093	0	%100
105	M109	X	-.161	-.161	0	%100
106	M109	Z	-.093	-.093	0	%100
107	M114	X	-.646	-.646	0	%100
108	M114	Z	-.373	-.373	0	%100
109	M121	X	-.186	-.186	0	%100
110	M121	Z	-.107	-.107	0	%100
111	M122	X	-.186	-.186	0	%100
112	M122	Z	-.107	-.107	0	%100
113	M123	X	-.742	-.742	0	%100
114	M123	Z	-.429	-.429	0	%100

Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.325	-.325	0	%100
2	FACE	Z	-.563	-.563	0	%100
3	M4	X	-.115	-.115	0	%100
4	M4	Z	-.2	-.2	0	%100
5	M10	X	-.293	-.293	0	%100
6	M10	Z	-.507	-.507	0	%100
7	MP3A	X	-.308	-.308	0	%100
8	MP3A	Z	-.533	-.533	0	%100
9	MP4A	X	-.308	-.308	0	%100
10	MP4A	Z	-.533	-.533	0	%100
11	MP2A	X	-.373	-.373	0	%100
12	MP2A	Z	-.646	-.646	0	%100
13	MP1A	X	-.308	-.308	0	%100
14	MP1A	Z	-.533	-.533	0	%100
15	M43	X	-.293	-.293	0	%100
16	M43	Z	-.507	-.507	0	%100
17	M46	X	-.583	-.583	0	%100
18	M46	Z	-1.011	-1.011	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-.324	-.324	0	%100
22	M52B	Z	-.561	-.561	0	%100
23	M76	X	-.194	-.194	0	%100
24	M76	Z	-.337	-.337	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-.194	-.194	0	%100
30	M84	Z	-.337	-.337	0	%100
31	M85	X	-.594	-.594	0	%100
32	M85	Z	-1.029	-1.029	0	%100
33	M91	X	-.626	-.626	0	%100
34	M91	Z	-1.084	-1.084	0	%100
35	M52A	X	-.461	-.461	0	%100
36	M52A	Z	-.798	-.798	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-.324	-.324	0	%100
44	M58A	Z	-.561	-.561	0	%100
45	M59A	X	-.324	-.324	0	%100
46	M59A	Z	-.561	-.561	0	%100
47	M63	X	-.778	-.778	0	%100
48	M63	Z	-1.347	-1.347	0	%100
49	M64	X	-.594	-.594	0	%100
50	M64	Z	-1.029	-1.029	0	%100
51	M66	X	-.626	-.626	0	%100
52	M66	Z	-1.084	-1.084	0	%100
53	M68	X	-.778	-.778	0	%100
54	M68	Z	-1.347	-1.347	0	%100
55	M69	X	-.594	-.594	0	%100
56	M69	Z	-1.029	-1.029	0	%100
57	M71	X	-.626	-.626	0	%100

Member Distributed Loads (BLC 76 : Structure Wm (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-1.084	-1.084	0	%100
59	M76A	X	-.115	-.115	0	%100
60	M76A	Z	-.2	-.2	0	%100
61	M77A	X	-.293	-.293	0	%100
62	M77A	Z	-.507	-.507	0	%100
63	M78	X	-.293	-.293	0	%100
64	M78	Z	-.507	-.507	0	%100
65	M79A	X	-.583	-.583	0	%100
66	M79A	Z	-1.011	-1.011	0	%100
67	M82	X	-.324	-.324	0	%100
68	M82	Z	-.561	-.561	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-.194	-.194	0	%100
72	M87	Z	-.337	-.337	0	%100
73	M88A	X	-.594	-.594	0	%100
74	M88A	Z	-1.029	-1.029	0	%100
75	M90	X	-.626	-.626	0	%100
76	M90	Z	-1.084	-1.084	0	%100
77	M92A	X	-.194	-.194	0	%100
78	M92A	Z	-.337	-.337	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	MP3C	X	-.308	-.308	0	%100
86	MP3C	Z	-.533	-.533	0	%100
87	MP4C	X	-.308	-.308	0	%100
88	MP4C	Z	-.533	-.533	0	%100
89	MP2C	X	-.373	-.373	0	%100
90	MP2C	Z	-.646	-.646	0	%100
91	MP1C	X	-.308	-.308	0	%100
92	MP1C	Z	-.533	-.533	0	%100
93	M91B	X	-.325	-.325	0	%100
94	M91B	Z	-.563	-.563	0	%100
95	MP3B	X	-.308	-.308	0	%100
96	MP3B	Z	-.533	-.533	0	%100
97	MP4B	X	-.308	-.308	0	%100
98	MP4B	Z	-.533	-.533	0	%100
99	MP2B	X	-.373	-.373	0	%100
100	MP2B	Z	-.646	-.646	0	%100
101	MP1B	X	-.308	-.308	0	%100
102	MP1B	Z	-.533	-.533	0	%100
103	M104	X	-.28	-.28	0	%100
104	M104	Z	-.484	-.484	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	-.28	-.28	0	%100
108	M114	Z	-.484	-.484	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	-.321	-.321	0	%100
112	M122	Z	-.557	-.557	0	%100
113	M123	X	-.321	-.321	0	%100
114	M123	Z	-.557	-.557	0	%100

Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M51B	Y	-1.812	-4.256	0	.832
2	M51B	Y	-4.256	-6.773	.832	1.665
3	M51B	Y	-6.773	-7.943	1.665	2.497
4	M51B	Y	-7.943	-6.32	2.497	3.329
5	M51B	Y	-6.32	-3.329	3.329	4.162
6	M52B	Y	-3.33	-6.293	0	.832
7	M52B	Y	-6.293	-7.874	.832	1.665
8	M52B	Y	-7.874	-6.636	1.665	2.497
9	M52B	Y	-6.636	-4.066	2.497	3.329
10	M52B	Y	-4.066	-1.597	3.329	4.162
11	M58A	Y	-1.597	-4.066	0	.832
12	M58A	Y	-4.066	-6.636	.832	1.665
13	M58A	Y	-6.636	-7.874	1.665	2.497
14	M58A	Y	-7.874	-6.293	2.497	3.329
15	M58A	Y	-6.293	-3.33	3.329	4.162
16	M59A	Y	-3.329	-6.32	0	.832
17	M59A	Y	-6.32	-7.943	.832	1.665
18	M59A	Y	-7.943	-6.773	1.665	2.497
19	M59A	Y	-6.773	-4.256	2.497	3.329
20	M59A	Y	-4.256	-1.812	3.329	4.162
21	M82	Y	-1.812	-4.256	0	.832
22	M82	Y	-4.256	-6.773	.832	1.665
23	M82	Y	-6.773	-7.943	1.665	2.497
24	M82	Y	-7.943	-6.32	2.497	3.329
25	M82	Y	-6.32	-3.329	3.329	4.162
26	M83A	Y	-3.33	-6.293	0	.832
27	M83A	Y	-6.293	-7.874	.832	1.665
28	M83A	Y	-7.874	-6.636	1.665	2.497
29	M83A	Y	-6.636	-4.066	2.497	3.329
30	M83A	Y	-4.066	-1.597	3.329	4.162

Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M51B	Y	-4.711	-11.065	0	.832
2	M51B	Y	-11.065	-17.611	.832	1.665
3	M51B	Y	-17.611	-20.651	1.665	2.497
4	M51B	Y	-20.651	-16.433	2.497	3.329
5	M51B	Y	-16.433	-8.654	3.329	4.162
6	M52B	Y	-8.658	-16.361	0	.832
7	M52B	Y	-16.361	-20.471	.832	1.665
8	M52B	Y	-20.471	-17.255	1.665	2.497
9	M52B	Y	-17.255	-10.571	2.497	3.329
10	M52B	Y	-10.571	-4.153	3.329	4.162
11	M58A	Y	-4.153	-10.571	0	.832
12	M58A	Y	-10.571	-17.255	.832	1.665
13	M58A	Y	-17.255	-20.471	1.665	2.497
14	M58A	Y	-20.471	-16.361	2.497	3.329
15	M58A	Y	-16.361	-8.658	3.329	4.162
16	M59A	Y	-8.654	-16.433	0	.832
17	M59A	Y	-16.433	-20.651	.832	1.665
18	M59A	Y	-20.651	-17.611	1.665	2.497
19	M59A	Y	-17.611	-11.065	2.497	3.329
20	M59A	Y	-11.065	-4.711	3.329	4.162
21	M82	Y	-4.711	-11.065	0	.832
22	M82	Y	-11.065	-17.611	.832	1.665
23	M82	Y	-17.611	-20.651	1.665	2.497

Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
24	M82	Y	-20.651	-16.433	2.497	3.329
25	M82	Y	-16.433	-8.654	3.329	4.162
26	M83A	Y	-8.658	-16.361	0	.832
27	M83A	Y	-16.361	-20.471	.832	1.665
28	M83A	Y	-20.471	-17.255	1.665	2.497
29	M83A	Y	-17.255	-10.571	2.497	3.329
30	M83A	Y	-10.571	-4.153	3.329	4.162

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N7	N6	N87C	N87B	Y	Two Way	-.005
2	N89	N90	N113	N111	Y	Two Way	-.005
3	N118	N117	N139	N141	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N7	N6	N87C	N87B	Y	Two Way	-.013
2	N89	N90	N113	N111	Y	Two Way	-.013
3	N118	N117	N139	N141	Y	Two Way	-.013

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N3	max	1247.542	10	2308.115	13	2925.274	1	4.653	13	1.71	4	.169	39
2		min	-1272.714	4	807.54	31	-3077.862	7	1.441	43	-1.74	10	-.087	50
3	N87D	max	2593.882	10	2308.341	21	1755.399	2	-.881	3	1.71	12	-1.1	39
4		min	-2715.28	4	896.123	3	-1653.099	8	-2.314	21	-1.74	6	-4.037	21
5	N115	max	2635.87	11	2308.682	17	1859.692	12	-.811	11	1.71	8	4.276	41
6		min	-2491.528	5	896.234	11	-1800.363	6	-2.682	41	-1.74	2	1.361	50
7	Totals:	max	6465.652	10	6838.92	13	6465.688	1						
8		min	-6465.651	4	2997.503	7	-6465.693	7						

Envelope AISC 15th(360-16): LRFD Steel Code Checks

	Member	Shape	Code Check	Loc[...	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt ...	phi*Mn ...	phi*Mn ...	Cb	Eqn
1	FACE	PIPE_3.0	.146	7.602	20	.053	4.981		7	27936.2...	65205	5.749	5.749	2...	H1-1b
2	M4	HSS4X4X4	.309	0	22	.062	0	y	13	124657....	139518	16.181	16.181	3...	H1-1b
3	M10	HSS4X4X4	.164	2.375	14	.051	.223	z	2	136263....	139518	16.181	16.181	1...	H1-1b
4	MP3A	PIPE_2.0	.248	2.875	16	.071	2.375		18	20866.7...	32130	1.872	1.872	3...	H1-1b
5	MP4A	PIPE_2.0	.230	2.938	10	.078	2.938		10	20866.7...	32130	1.872	1.872	1...	H1-1b
6	MP2A	PIPE_2.5	.288	2.875	1	.082	.938		10	37773.8...	50715	3.596	3.596	4...	H1-1b
7	MP1A	PIPE_2.0	.281	2.875	46	.078	2.938		4	20866.7...	32130	1.872	1.872	3...	H1-1b
8	M43	HSS4X4X4	.162	0	24	.054	0	y	18	136263....	139518	16.181	16.181	1...	H1-1b
9	M46	PL1/2x6	.194	.516	6	.109	.516	y	23	66009.2...	97200	1.012	12.15	1...	H1-1b
10	M51B	L2x2x3	.215	4.162	2	.012	4.162	y	17	9823.122	23392.8	.558	1.103	1...	H2-1
11	M52B	L2x2x3	.206	0	12	.013	0	y	21	9823.122	23392.8	.558	1.107	1...	H2-1
12	M76	PL3/8x6	.166	0	1	.271	0	y	19	70677.9...	72900	.57	9.113	1...	H1-1b
13	M77	PL3/8x6	.346	.167	8	.321	0	y	13	71601.7...	72900	.57	9.113	1...	H1-1b
14	M80	PL1/2x6	.053	.112	11	.029	.112	y	39	96757.5...	97200	1.012	12.15	1...	H1-1b
15	M84	PL3/8x6	.230	0	7	.226	0	y	19	70677.9...	72900	.57	9.113	1...	H1-1b
16	M85	PL3/8x6	.357	.167	6	.329	0	y	24	71601.7...	72900	.57	9.113	1...	H1-1b
17	M91	PL1/2x6	.056	0	12	.026	.112	y	50	96757.5...	97200	1.012	12.15	1...	H1-1b
18	M52A	HSS4X4X4	.309	0	18	.068	0	y	30	124657....	139518	16.181	16.181	3...	H1-1b
19	M53	HSS4X4X4	.164	2.375	22	.051	.223	z	10	136263....	139518	16.181	16.181	1...	H1-1b

Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)

	Member	Shape	Code Check	Loc[...	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt ...	phi*Mn ...	phi*Mn ...	Cb	Eqn
20	M54	HSS4X4X4	.162	0	20	.054	0	y	14	136263....	139518	16.181	16.181	1...	H1-1b
21	M55	PL1/2x6	.194	.516	2	.109	.516	y	19	66009.2...	97200	1.012	12.15	1...	H1-1b
22	M58A	L2x2x3	.214	4.162	10	.012	4.162	y	13	9823.122	23392.8	.558	1.107	1...	H2-1
23	M59A	L2x2x3	.206	0	8	.013	0	y	17	9823.122	23392.8	.558	1.103	1...	H2-1
24	M63	PL3/8x6	.166	0	9	.271	0	y	15	70677.9...	72900	.57	9.113	1...	H1-1b
25	M64	PL3/8x6	.346	.167	4	.321	0	y	21	71601.7...	72900	.57	9.113	1...	H1-1b
26	M66	PL1/2x6	.053	.112	7	.025	0	y	41	96757.5...	97200	1.012	12.15	1...	H1-1b
27	M68	PL3/8x6	.230	0	3	.226	0	y	15	70677.9...	72900	.57	9.113	1...	H1-1b
28	M69	PL3/8x6	.357	.167	2	.329	0	y	20	71601.7...	72900	.57	9.113	1...	H1-1b
29	M71	PL1/2x6	.056	0	8	.065	0	y	50	96757.5...	97200	1.012	12.15	1...	H1-1b
30	M76A	HSS4X4X4	.318	0	38	.084	0	y	29	124657....	139518	16.181	16.181	2...	H1-1b
31	M77A	HSS4X4X4	.164	2.375	18	.051	.223	z	6	136263....	139518	16.181	16.181	1...	H1-1b
32	M78	HSS4X4X4	.162	0	16	.054	0	y	22	136263....	139518	16.181	16.181	1...	H1-1b
33	M79A	PL1/2x6	.194	.516	10	.179	.516	y	39	66009.2...	97200	1.012	12.15	1...	H1-1b
34	M82	L2x2x3	.215	4.162	6	.012	4.162	y	21	9823.122	23392.8	.558	1.103	1...	H2-1
35	M83A	L2x2x3	.206	0	4	.013	0	y	13	9823.122	23392.8	.558	1.107	1...	H2-1
36	M87	PL3/8x6	.166	0	5	.271	0	y	23	70677.9...	72900	.57	9.113	1...	H1-1b
37	M88A	PL3/8x6	.346	.167	12	.321	0	y	17	71601.7...	72900	.57	9.113	1...	H1-1b
38	M90	PL1/2x6	.053	.112	3	.149	0	y	37	96757.5...	97200	1.012	12.15	1...	H1-1b
39	M92A	PL3/8x6	.230	0	11	.226	0	y	23	70677.9...	72900	.57	9.113	1...	H1-1b
40	M93	PL3/8x6	.357	.167	10	.329	0	y	16	71601.7...	72900	.57	9.113	1...	H1-1b
41	M95	PL1/2x6	.056	0	4	.064	.112	y	38	96757.5...	97200	1.012	12.15	1...	H1-1b
42	M82A	PIPE_3.0	.146	7.602	16	.053	4.981		3	27936.2...	65205	5.749	5.749	2...	H1-1b
43	MP3C	PIPE_2.0	.248	2.875	24	.071	2.375		14	20866.7...	32130	1.872	1.872	3...	H1-1b
44	MP4C	PIPE_2.0	.230	2.938	6	.078	2.938		6	20866.7...	32130	1.872	1.872	1...	H1-1b
45	MP2C	PIPE_2.5	.288	2.875	9	.082	.938		6	37773.8...	50715	3.596	3.596	1...	H1-1b
46	MP1C	PIPE_2.0	.263	2.875	18	.078	2.938		12	20866.7...	32130	1.872	1.872	2...	H1-1b
47	M91B	PIPE_3.0	.146	7.602	24	.053	4.981		11	27936.2...	65205	5.749	5.749	2...	H1-1b
48	MP3B	PIPE_2.0	.248	2.875	20	.071	2.375		22	20866.7...	32130	1.872	1.872	2...	H1-1b
49	MP4B	PIPE_2.0	.230	2.938	2	.078	2.938		2	20866.7...	32130	1.872	1.872	1...	H1-1b
50	MP2B	PIPE_2.5	.288	2.875	5	.082	.938		2	37773.8...	50715	3.596	3.596	1...	H1-1b
51	MP1B	PIPE_2.0	.263	2.875	14	.078	2.938		8	20866.7...	32130	1.872	1.872	3...	H1-1b
52	M104	PIPE_2.5	.139	7.161	22	.033	11.328		7	14558.7...	50715	3.596	3.596	2...	H1-1b
53	M109	PIPE_2.5	.139	7.161	18	.033	11.328		3	14558.7...	50715	3.596	3.596	2...	H1-1b
54	M114	PIPE_2.5	.139	7.161	14	.033	11.328		11	14558.7...	50715	3.596	3.596	2...	H1-1b
55	M121	L3X3X4	.106	1.311	4	.025	0	y	6	44912.19	46656	1.688	3.756	1...	H2-1
56	M122	L3X3X4	.106	1.311	8	.025	.273	y	10	44912.19	46656	1.688	3.756	1...	H2-1
57	M123	L3X3X4	.106	1.311	12	.031	0	y	38	44912.19	46656	1.688	3.756	1...	H2-1

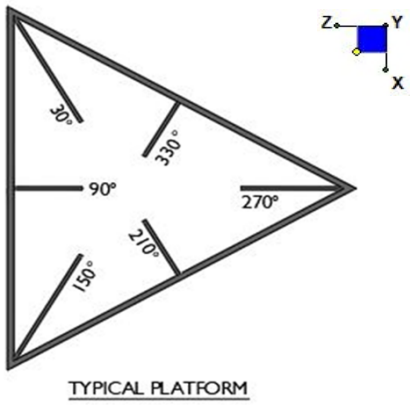
Client:	Verizon Wireless	Date:	8/12/2021
Site Name:	DANIELSON WEST CT		
Project No.	21777295A		
Title:	Mount Fix	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

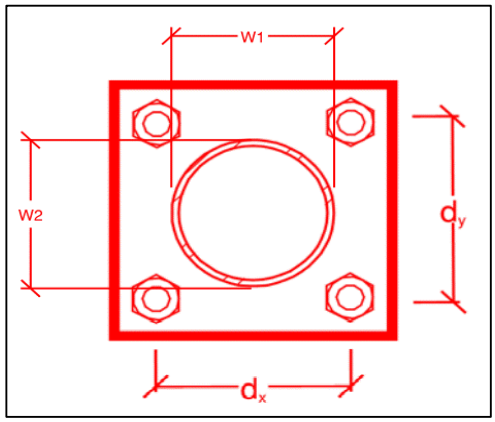
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N87D	30
N115	150
N3	270



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	yes
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	8
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	8
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength (kips):	15.3
Required Shear Strength (kips):	7.3
Tensile Strength / bolt (kips):	20.7
Shear Strength / bolt (kips):	12.4
Tensile Capacity Overall:	**18.5%***
Shear Capacity Overall:	**14.8%**



**Note: Tension reduction not required if tension or shear capacity < 30%*

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	RECT
Plate Width (in):	10
Plate Height (in):	10
W1 (in):	4
W2 (in):	4
Fy (ksi, plate):	36
t_{Plate} (in):	0.625
Weld Size (1/16 in):	4
Phi*Rn (kip/in):	5.57
Required Weld Strength (kip/in):	2.91
Plate Bending Capacity:	**49.2%**
Weld Capacity:	**52.2%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)* :	15.2
$Phi*Mn_{xx}$ *(kip-in)* :	31.6
Mu_{yy} *(kip-in)* :	0.4
$Phi*Mn_{yy}$ *(kip-in)* :	31.6

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Purpose – to provide Maser Consulting Connecticut the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the drawings
- Provide "as built drawings" showing contractor's name, preparer's signature, and date. Any deviations from the drawings (proposed modification) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to **https://pmi.vzwsmart.com** as depicted on the drawings

Photo Requirements:

- *Base and "During Installation Photos"*
  - Base pictures include
    - Photo of Gate Signs showing the tower owner, site name, and number
    - Photo of carrier shelter showing the carrier site name and number if available
    - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
  - "During Installation Photos if provided - must be placed only in this folder
- *Photos taken at ground level*
  - Overall tower structure before and after installation of the modifications
  - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- *Photos taken at Mount Elevation*
    - Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
        These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
    - Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
    - Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
    - Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
    - Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
    - Photos showing the safety climb wire rope above and below the mount prior to modification.
    - Photos showing the climbing facility and safety climb if present.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by Maser Consulting Connecticut.
    - If the drawings are as specified on the drawings
        The contractor should provide the packing list or the materials utilized to perform the mount modification
    - If an equivalent is utilized
        It is required that the Maser Consulting Connecticut certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.

☐ The Material utilized was as specified on the Maser Consulting Connecticut Mount Modification Drawings and included in the material certification folder is a packing list or invoice for these materials

☐ The material utilized was an "equivalent" and included as part of the contractor submission is the Maser Consulting Connecticut certification, invoices, or specifications validating accepted status

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.

☐ The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____

Name _____

Signature _____

Special Instructions / Validation as required from the MA or Mod Drawings:

Issue:

Contractor shall re-attach existing safety climb wire rope to the existing tower mounted safety climb wire clip.

Response:

Schedule A – Photo & Document File Structure

- VzW Site Number / Name
  - Base & “During Installation” Photos
  - Pre-Installation Photos
    - Alpha
    - Beta
    - Gamma
    - Ground Level
    - Tape Drop
  - Post-Installation Photos
    - Alpha
    - Beta
    - Gamma
    - Ground Level
    - Tape Drop
    - Photos of climbing facility and safety climb – If Present
  - Certifications – Submission of this document including certifications
  - Specific Required Additional Photos

Structure: 535823-VZW - DANIELSON WEST CT

Sector: **A**

Structure Type: Monopole

Mount Elev: 127.00

10045207

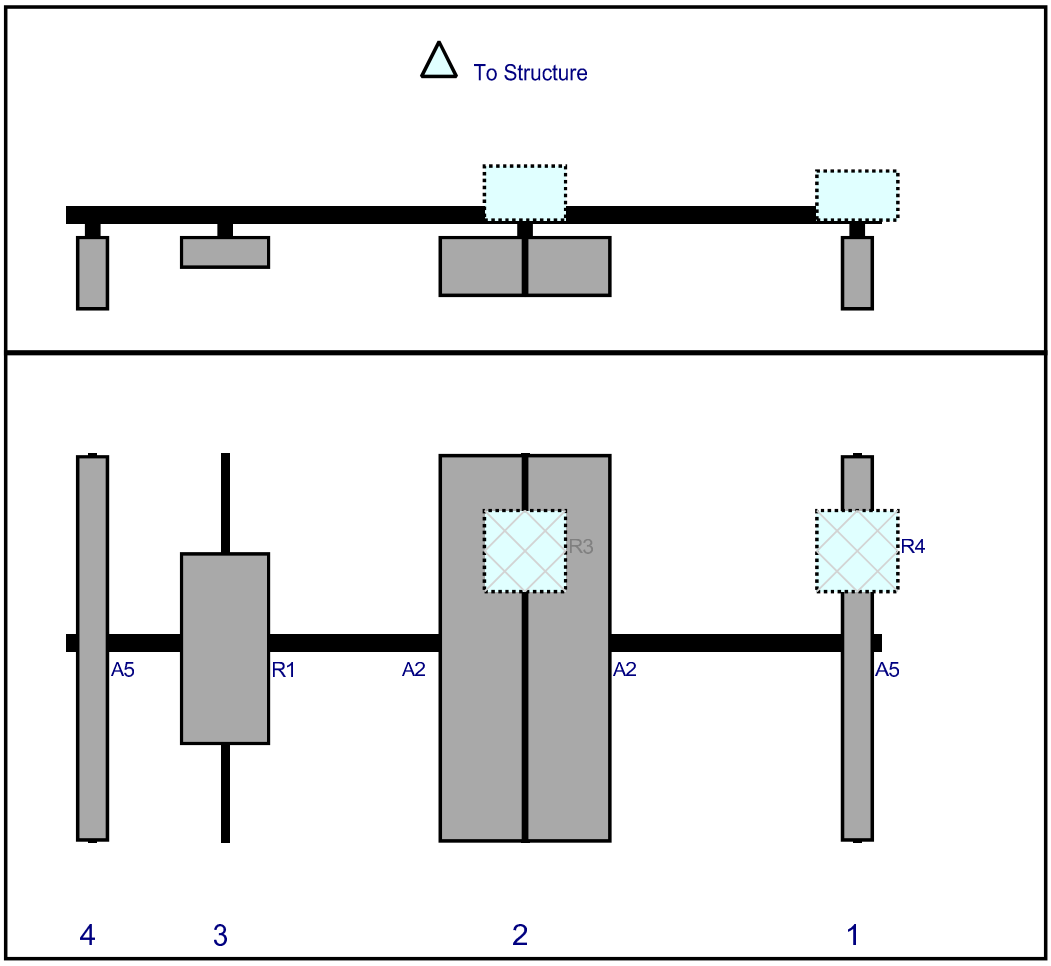
8/12/2021

Page: 1

MASER CONSULTING CONNECTICUT

Plan View

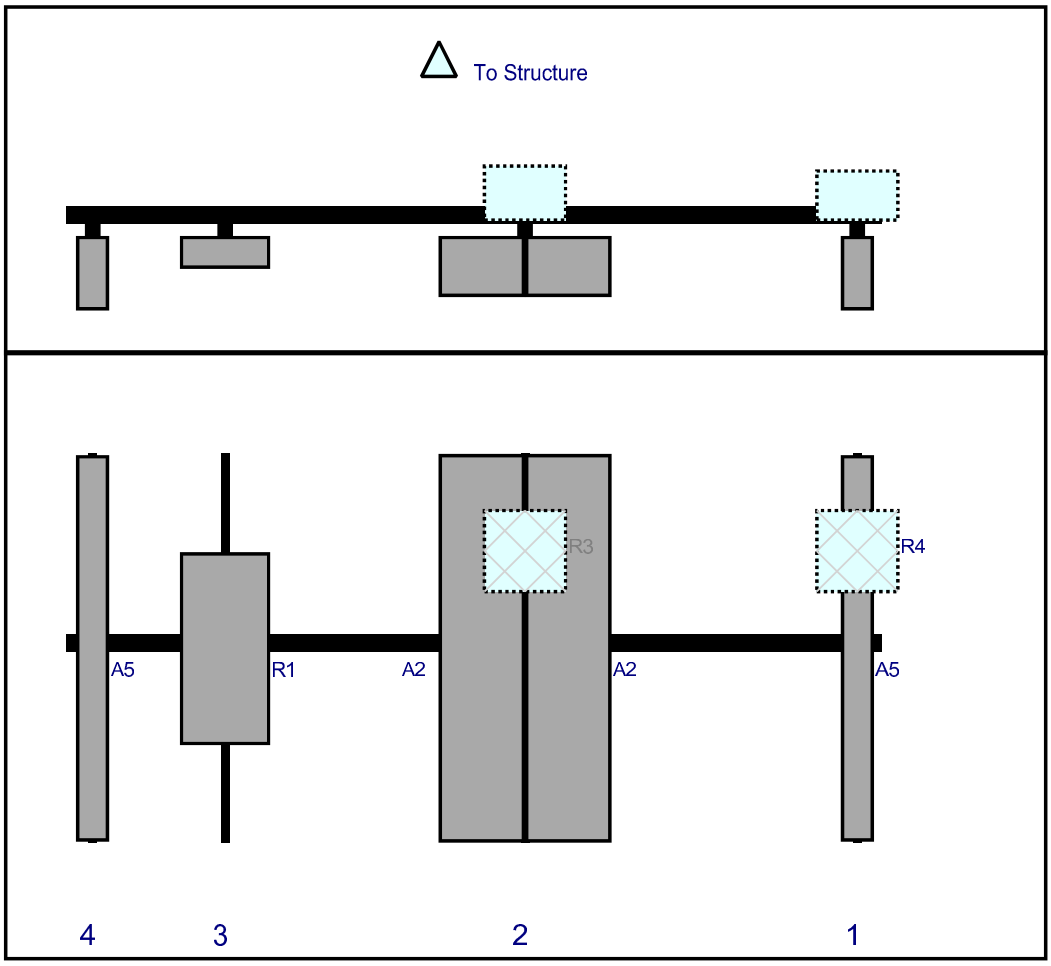
Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A5	LPA-80080/6CF	70.9	5.5	146.5	1	a	Front	36	0	Retained	03/23/2021
R4	RF4440d-13A	15	15	146.5	1	a	Behind	18	0	Added	
A2	MX06FRO660-02	71.3	15.4	85	2	a	Front	36	8	Added	
A2	MX06FRO660-02	71.3	15.4	85	2	b	Front	36	-8	Added	
R3	RF4439d-25A	15	15	85	2	a	Behind	18	0	Added	
R1	MT6407-77A	35.1	16.1	29.5	3	a	Front	36.06	0	Added	
A5	LPA-80080/6CF	70.9	5.5	5	4	a	Front	36	0	Retained	03/23/2021

Plan View

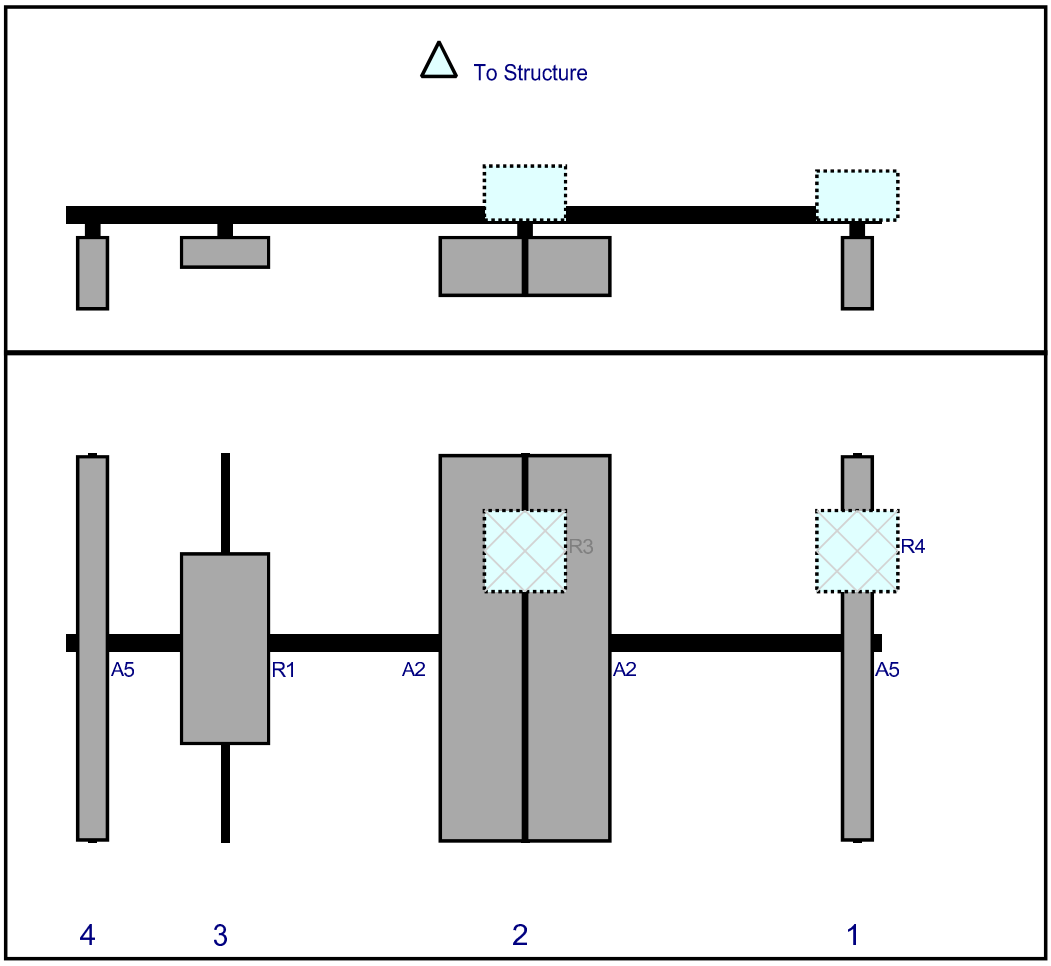
Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A5	LPA-80080/6CF	70.9	5.5	146.5	1	a	Front	36	0	Retained	03/23/2021
R4	RF4440d-13A	15	15	146.5	1	a	Behind	18	0	Added	
A2	MX06FRO660-02	71.3	15.4	85	2	a	Front	36	8	Added	
A2	MX06FRO660-02	71.3	15.4	85	2	b	Front	36	-8	Added	
R3	RF4439d-25A	15	15	85	2	a	Behind	18	0	Added	
R1	MT6407-77A	35.1	16.1	29.5	3	a	Front	36.06	0	Added	
A5	LPA-80080/6CF	70.9	5.5	5	4	a	Front	36	0	Retained	03/23/2021

Plan View

Front View
Looking at Structure



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A2	MX06FRO660-02	71.3	15.4	85	2	b	Front	36	-8	Added	
R3	RF4439d-25A	15	15	85	2	a	Behind	18	0	Added	
R1	MT6407-77A	35.1	16.1	29.5	3	a	Front	36.06	0	Added	
A5	LPA-80080/6CF	70.9	5.5	5	4	a	Front	36	0	Retained	03/23/2021

Maser Consulting Connecticut

Subject	TIA-222-H Usage	
Site Information	*Site ID:*	*535823-VZW / DANIELSON WEST CT*
	Site Name:	*DANIELSON WEST CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*146 Brown Road* *Brooklyn, Connecticut 06234* *Windham County*
	Latitude:	*41.79836388°*
	Longitude:	*-71.93589166°*
Structure Information	*Tower Type:*	*Monopole*
	Mount Type:	*12.58-Ft Platform*

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H Standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed maps by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling methods, seismic analysis, 30-degree increment wind directions and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,

Digitally signed by Justin Linette
Date: 2021.08.17 09:24:39-04'00'

Justin Linette, PE
Senior Technical Manager

verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 12.58' PLATFORM

TOWER OWNER: SBA
TOWER OWNER SITE NUMBER: CT13612

CARRIER SITE NAME: DANIELSON WEST CT
CARRIER SITE NUMBER: 535823
FUZE ID: 16272151

146 BROWN ROAD
BROOKLYN, CONNECTICUT 06234
WINDHAM COUNTY

LATITUDE: 41.79836388° N
LONGITUDE: 71.93589166° W

DESIGN CRITERIA

WIND LOADS

BASIC WIND SPEED (3 SECOND GUST), V = 122 MPH
EXPOSURE CATEGORY C
TOPOGRAPHIC CATEGORY 1
MEAN BASE ELEVATION (AMSL) = 303.29'

ICE LOADS

ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
ICE THICKNESS = 1.00 IN

SEISMIC LOADS

SEISMIC DESIGN CATEGORY B
SHORT TERM MCER GROUND MOTION, S_S = .184
LONG TERM MCER GROUND MOTION, S_1 = .054

PROJECT INFORMATION

APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY: VERIZON WIRELESS
ADDRESS: 118 FLANDERS ROAD, THIRD FLOOR
CITY, STATE, ZIP: WESTBOROUGH, MA 01581
CONTACT: ANDREW CANDIELLO
EMAIL: ANDREW.CANDIELLO@VERIZONWIRELESS.COM

PROJECT MANAGER

COMPANY: MASER CONSULTING CONNECTICUT
CONTACT: PETER ALBANO
PHONE: 856-797-0412
E-MAIL: PETER.ALBANO@COLLIERSENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #: 10094017
VZW LOCATION CODE (PSLC): 535823
ANALYSIS DATE: 8/16/2021

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX

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SCALE:	JOB NUMBER:
AS SHOWN	21777295A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	8/16/2021	ISSUED FOR CONSTRUCTION	SEA	DX

Digitally signed by Justin Peter Vinette
Date: 2021.08.17 09:27:39-04'00'

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:

DANIELSON WEST CT
535823
146 BROWN ROAD
BROOKLYN, CONNECTICUT
06234
WINDHAM COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE: TITLE SHEET

SHEET NUMBER: ST-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	VZWSMART	VZWSMART-PLK1	SUPPORT RAIL KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1	504	504

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3	-	-	72" LONG, P2 1/2 STD	GALVANIZED	35	105
3	SITE PRO 1	SP219-H	CROSSOVER PLATES	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION.	29	87
					TOTAL:	696

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

NOTES:

1. THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.
2. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

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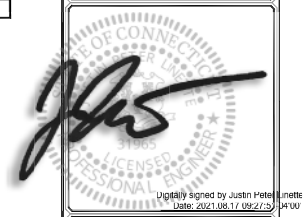

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06234
WINDHAM COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE: BILL OF MATERIALS

SHEET NUMBER: SBOM-1

PROJECT NOTES

1. SEE MODIFICATION NOTES
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
   a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
   b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
   c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO
      PETER.ALBANO@COLLIERSENGINEERING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
9. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
10. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
11. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
12. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
13. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

WELDING NOTES

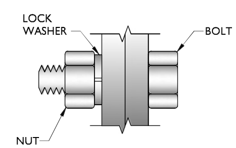
1. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
2. CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
3. THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
4. IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.
5. OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
6. CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.

BOLT SCHEDULE (IN.)

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)

LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:
1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
3. SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
4. MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.

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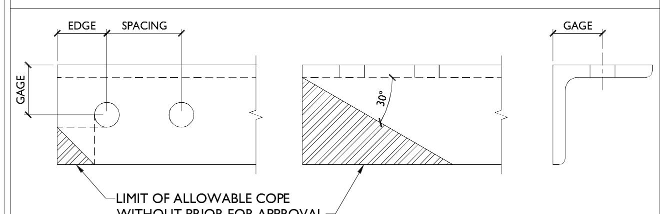

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Customer Loyalty through Client Satisfaction
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Office Locations:
NEW JERSEY, NEW YORK, PENNSYLVANIA, VIRGINIA, FLORIDA, NORTH CAROLINA, SOUTH CAROLINA, NEW MEXICO, MARYLAND, GEORGIA, TEXAS, TENNESSEE, COLORADO
MASER CONSULTING C.T. C.O.A. #: JPC 0000131

verizon

811 — Know what's below. Call before you dig.
PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE:	JOB NUMBER:
AS SHOWN	21777295A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0	8/16/2021	ISSUED FOR CONSTRUCTION	SEA	DJK

Digitally signed by Justin Peter Binette
Date: 2021.08.17 09:27:57 -04'00'

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

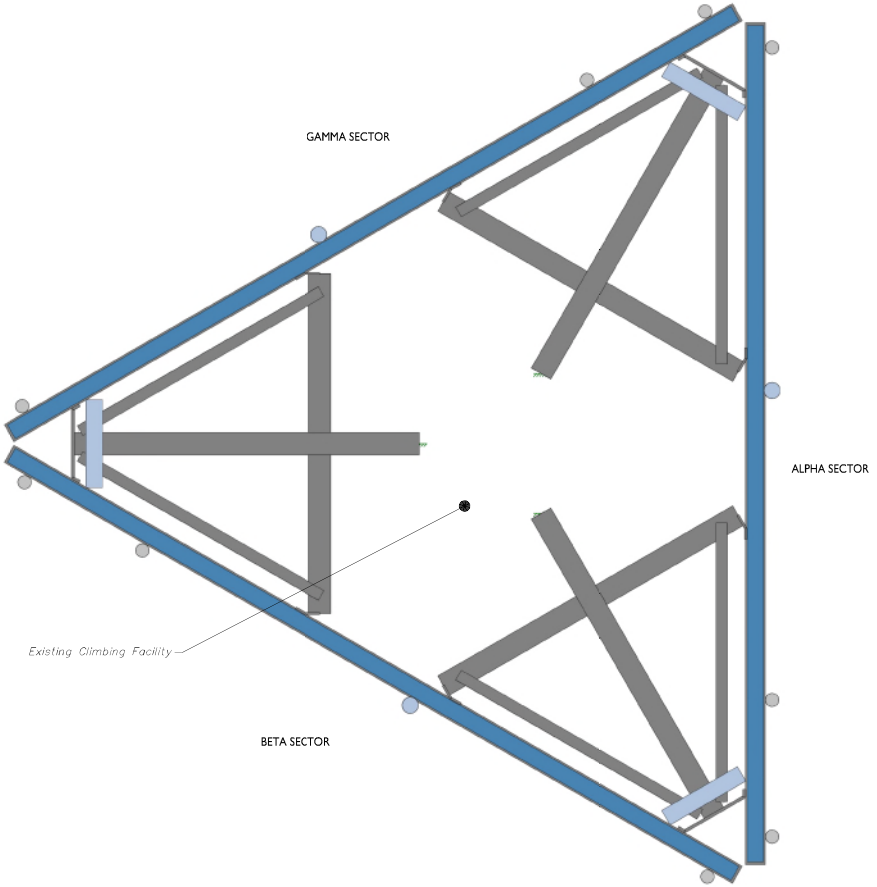
SITE NAME:
DANIELSON WEST CT
535823
146 BROWN ROAD
BROOKLYN, CONNECTICUT
06234
WINDHAM COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE: MODIFICATION NOTES

SHEET NUMBER: SGN-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 CLIMBING FACILITY LOCATION

SCALE : N.T.S.

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY ROAMING NETWORKS INC. ON 3/23/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (127'-00") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.

2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

CLIMBING FACILITY PHOTO

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SCALE:	JOB NUMBER:
AS SHOWN	21777295A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	9/16/2021	ISSUED FOR CONSTRUCTION	SEA	DX

STATE OF CONNECTICUT — JUSTIN PETER LINETTE — 31905 — LICENSED PROFESSIONAL ENGINEER

Digitally signed by Justin Peter Linette
Date: 2021.09.17 09:27:57 -04'00'

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06234
WINDHAM COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
CLIMBING FACILITY DETAIL

SHEET NUMBER:
SCF-1

LEGEND:

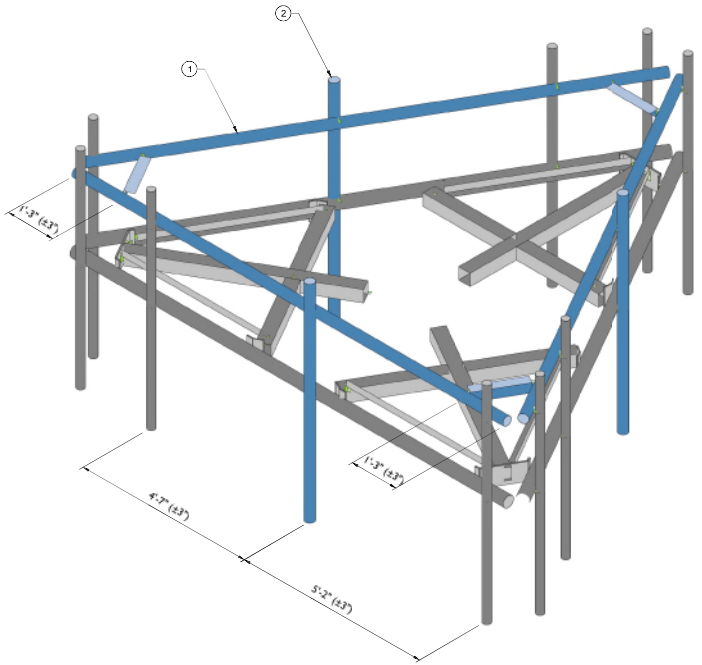
- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE

NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	127'-00"	1	PROPOSED SUPPORT RAIL KIT (PART #: VZWSMART-PLK1)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
2		3	72" LONG, P2 1/2 STD	GALVANIZED, CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (SITE PRO 1 PART #: SP219-H).
3				
4				
5				
6				
7				
8				
9				
10				

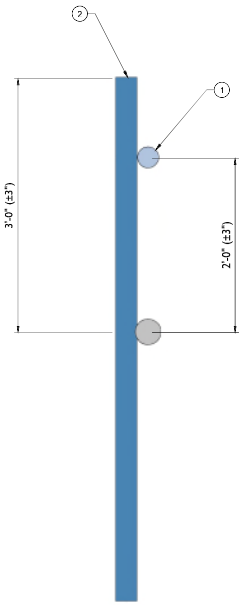
NOTES.

MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.



1 PROPOSED ISOMETRIC VIEW

SCALE : N.T.S.



2 PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)

SCALE : N.T.S.

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SCALE:	JOB NUMBER:
AS SHOWN	21777295A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	9/16/2021	ISSUED FOR CONSTRUCTION	SEA	DX

STATE OF CONNECTICUT — JUSTIN PETER LINETTE — 31905 — LICENSED PROFESSIONAL ENGINEER

Digitally signed by Justin Peter Linette
Date: 2021.09.17 09:27:55 -04'00'

SITE NAME:

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535823
146 BROWN ROAD
BROOKLYN, CONNECTICUT
06234
WINDHAM COUNTY

751 LAUREL OAKS
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
MODIFICATION DETAILS

SHEET NUMBER:
SS-1

MOUNT PHOTO 1

MOUNT PHOTO 2

MOUNT PHOTO 3

MOUNT PHOTO 4

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SCALE: AS SHOWN
JOB NUMBER: 21777295A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	9/16/2021	ISSUED FOR CONSTRUCTION	SEA	DX

Digitally signed by Justin Peter Lunette
Date: 2021.09.17 09:27:55 -04'00'

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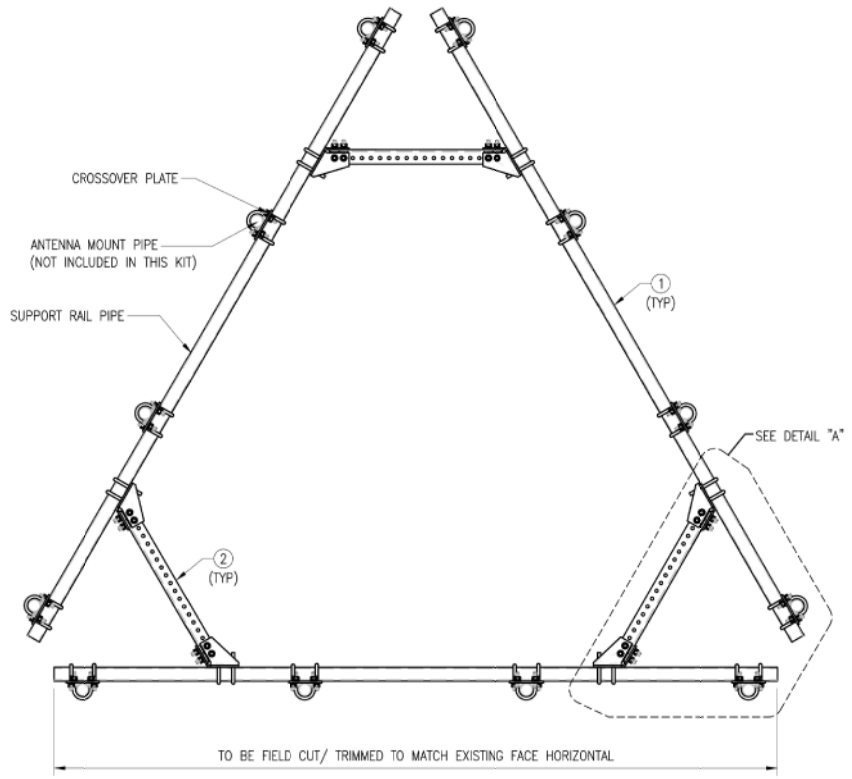
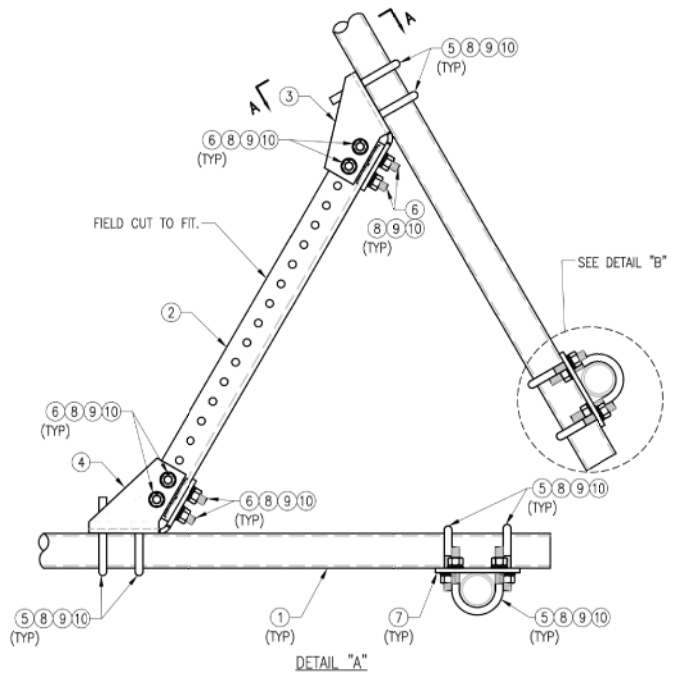
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE: MOUNT PHOTOS

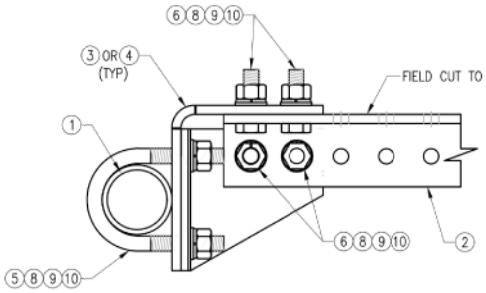
SHEET NUMBER: SS-2



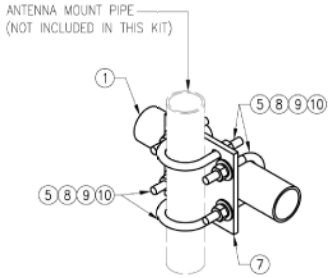
PLAN VIEW



DETAIL "A"



SECTION "A–A"



DETAIL "B"

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZW SMART-PLK1 (SUPPORT RAIL KIT)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	PST2875-12.5	2.5" PST (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	PLK1-F1	292
2	3	L33375-3	L 3" X 3" X 3/8" X 3'-0" A36	PLK1-F1	66
3	3	CBP-L	CORNER BENT PLATE BRACKET	PLK1-F2	28
4	3	CBP-R	CORNER BENT PLATE BRACKET	PLK1-F2	28
5	60	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	82
6	24	---	BOLT 5/8" X 2" A325	---	9
7	12	PL375-857	PL 3/8" X 8 1/2" X 7'-0" A36	PLK1-F3	77
8	144	FW-625	5/8" HDG USS FLAT WASHER	---	12
9	144	LW-625	5/8" HDG LOCK WASHER	---	3
10	144	NUT-625	5/8" HDG HEX NUT	---	17
				GALVANIZED WT	504

VzW SMART Tool© Vendor

verizon

DRAWN BY: H.R | CHECKED BY: HMA

REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	H.R	05/08/20

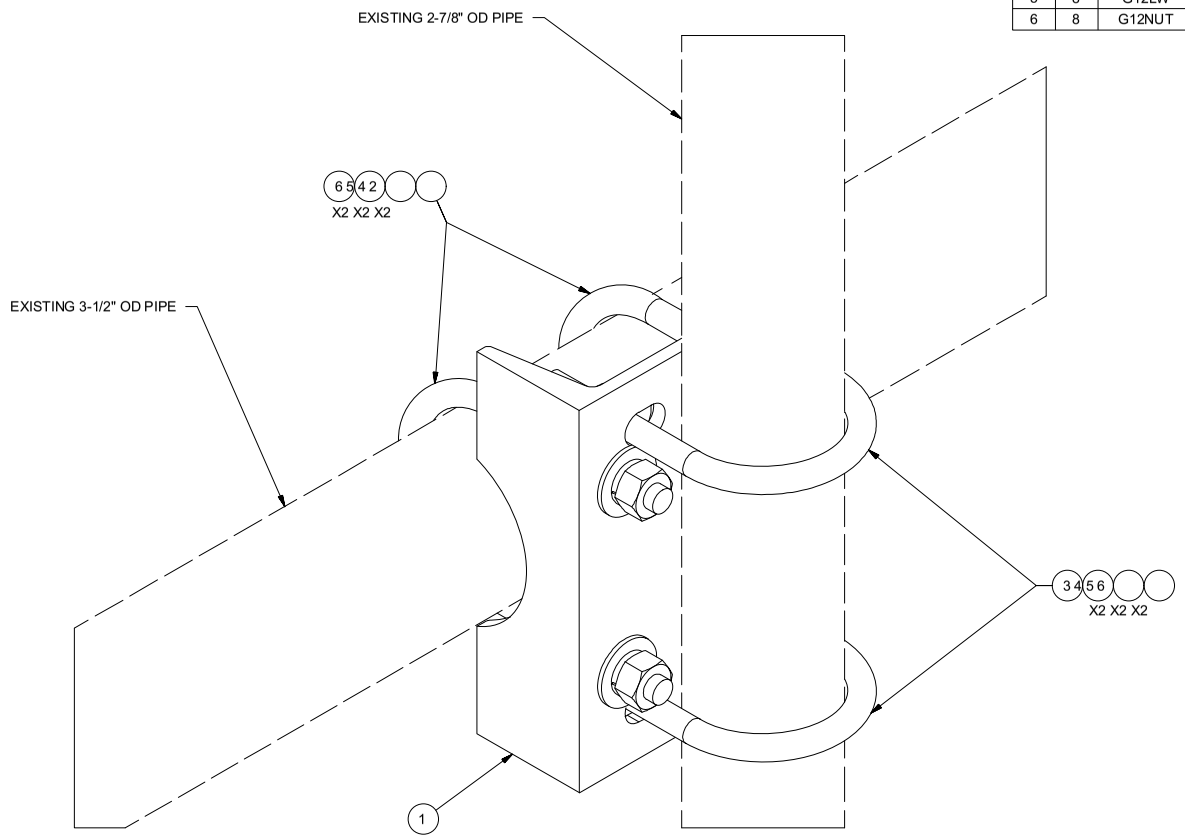
SHEET TITLE:

VZWSMART-PLK1
SUPPORT RAIL KIT

SHEET NUMBER: VZWSMART-PLK1

REV #: 0

PARTS LIST						
ITEM	QT	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SP219	SMALL SUPPORT CROSS PLATE	8 1/4 in	8.61	8.61
2	2	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.66	1.31
3	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.66	1.31
4	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
5	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
6	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	12.61



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

REV	DESCRIPTION OF REVISIONS	CPD BY DATE
A	REDRAWN IN INV, UPDATED VIEWS & TABLE	KC8 8-21-2012

REVISION HISTORY

DESCRIPTION
2-7/8" TO 3-1/2"
PIPE MOUNT ASSEMBLY

SITE PRO 1
A valmont COMPANY

Engineering Support Team:
1-888-753-7446

Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
4518	BMC 6/3/2009		SP219-H	1 OF 1
CLASS SUB	DRAWING USAGE	CHECKED BY	DWG. NO.	
81 01	CUSTOMER	CEK 2/18/2013	SP219-H	

ATTACHMENT 5

CT-019-34-34

Owner Name: PERKINS CYNTHIA E & RICHARD H &

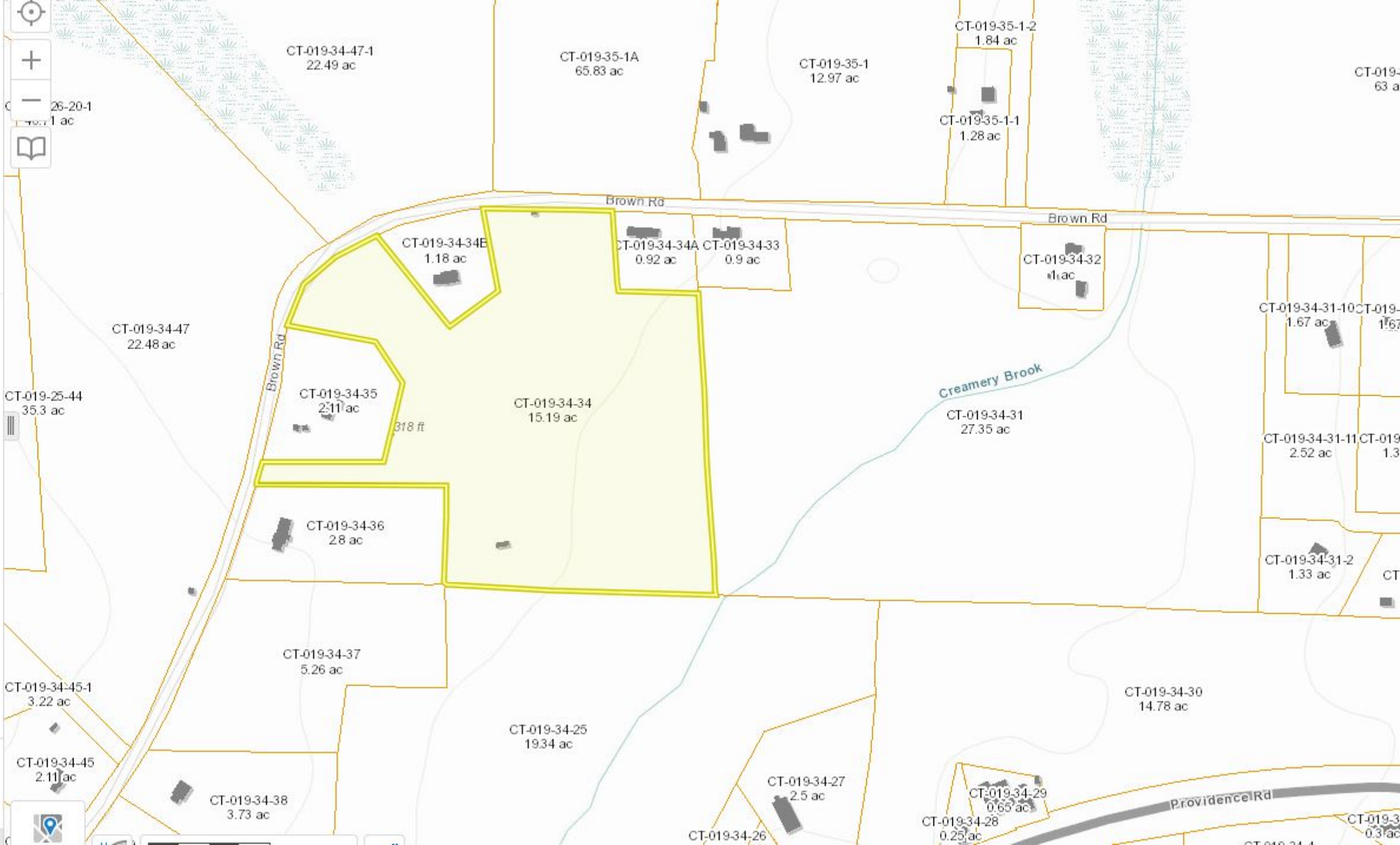
Street Address: 159 BROWN RD

Town: Brooklyn

Appraised Value: 205090

Displaying 1 - 1 (Total: 1)

Page 1 of 1



Property Location 159 BROWN RD | Map ID 34/ / 34/ / | Bldg Name | State Use 1010
Vision ID 1473 | Account # 00132200 | Bldg # 1 | Sec # 1 of 1 | Card # 1 of 1 | Print Date 1/25/2021 1:45:06 PM

CURRENT OWNER

PERKINS CYNTHIA E & RICHARD H
PERKINS ANNIE D
159 BROWN RD

BROOKLYN CT 06234

TOPO	UTILITIES	STRT / ROAD	LOCATION

SUPPLEMENTAL DATA

Alt Prcl ID	34/034	490 PEN	10/01/2025
OVERLAY		DEVRIGH	
		SUBDIV.	
		SURVEY #	21/193
FIRE DIST		DEV LOT	
SEWER		Census #	9051

CURRENT ASSESSMENT

Description	Code	Appraised	Assessed
RES LAND	1-1	45,200	31,600
DWELLING	1-3	240,800	168,600
RES OUTBL	1-4	400	300
OPN SPACE	6-3	47,200	4,590
	Total	333,600	205,090

6019

BROOKLYN, CT

VISION

RECORD OF OWNERSHIP

RECORD OF OWNERSHIP	BK-VOL/PAGE		SALE DATE	Q/U	V/I	SALE PRICE	VC
PERKINS CYNTHIA E & RICHARD H &	0571	0183	02-09-2016	U	V	0	29
PERKINS CYNTHIA E & RICHARD H	0562	0256	07-13-2015	U	V	45,000	25
INGALLS RALPH G FAMILY TRUST	0369	0196	09-12-2005			0	
INGALLS RALPH G	0034	0311	04-22-1958	U	I	0	

PREVIOUS ASSESSMENTS (HISTORY)

Year	Code	Assessed	Year	Code	Assessed V	Year	Code	Assessed
2020	1-1	31,600	2019	1-1	39,000	2018	1-1	39,000
	1-3	168,600		1-3	112,900		1-3	112,900
	1-4	300		6-3	4,590		6-3	4,590
	6-3	4,590						
	Total	205090		Total	156490		Total	156490

EXEMPTIONS

Year	Code	Description	Amount
		Total	0.00

OTHER ASSESSMENTS

Code	Description	Number	Amount	Comm Int

This signature acknowledges a visit by a Data Collector or Assessor

ASSESSING NEIGHBORHOOD

Nbhd	Nbhd Name	B	Tracing	Batch
0001				

NOTES

1.19 AC TRANSFERRED TO 34/35 V544P258

EASEMENT V571 P180

APPRAISED VALUE SUMMARY

Appraised Bldg. Value (Card)	240,800
Appraised Xf (B) Value (Bldg)	0
Appraised Ob (B) Value (Bldg)	400
Appraised Land Value (Bldg)	92,400
Special Land Value	4,590
Total Appraised Parcel Value	333,600
Valuation Method	C
Total Appraised Parcel Value	333,600

BUILDING PERMIT RECORD

Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments
B-16-195	07-06-2016	RS	Residential	15,000		100	10-01-2016	REPLACE EXISTING ANTEN
B16-115	04-21-2016	RS	Residential	5,000	06-07-2016	100	10-01-2016	PELLET STOVE
B-15-32	12-01-2015	NC	New Construct	180,000	06-07-2016	100	05-16-2016	SFD W/GARAGE

VISIT / CHANGE HISTORY

Date	Id	Type	Is	Cd	Purpost/Result
07-09-2020	MM			13	Field Review
06-18-2020	KN			58	Data mailer no chge
11-07-2016	KT			12	Acreage Change
06-07-2016	KT			00	Measure+Listed
02-17-2016	MS			47	Change Legal Owner
07-20-2015	MS			56	Declassify 490
07-20-2015	MS			47	Change Legal Owner

LAND LINE VALUATION SECTION

B	Use Code	Description	Zone	LA	Land Type	Land Units		Unit Price	Size Adj	Site Index	Cond.	Nbhd.	Nbhd. Adj	Notes	Location Adjustmen	Adj Unit P	Land Value
1	1010	Single Fam MDL	RA			2.070	AC	36,000	0.55152	5	1.00	0050	1.100		1.0000		45,200
1	8000	OPEN SPACE	RA			13.120	AC	3,600	1.00000	0	1.00		1.000		1.0000		47,200

Total Card Land Units	15.190	AC	Parcel Total Land Area	15.1900	Total Land Value	92,400

Property Location	159 BROWN RD		Map ID	34/ / 34/ /		Bldg Name	State Use 1010
Vision ID 1473		Account # 00132200		Bldg # 1	Sec # 1 of 1	Card # 1 of 1	Print Date 1/25/2021 1:45:08 PM

CONSTRUCTION DETAIL

Element	Cd	Description
Style:	01	Ranch
Model	01	Residential
Grade:	04	C+
Stories:	1	
Occupancy	1	
Exterior Wall 1	06	Board & Batten
Exterior Wall 2	25	Vinyl Siding
Roof Structure:	03	Gable/Hip
Roof Cover	03	Asph/F Gls/Cmp
Interior Wall 1	05	Drywall/Sheet
Interior Wall 2		
Interior Flr 1	20	Wood Laminate
Interior Flr 2		
Heat Fuel	02	Oil
Heat Type:	05	Hot Water
AC Type:	01	None
Total Bedrooms	02	2 Bedrooms
Total Bthrms:	2	
Total Half Baths	0	
Total Xtra Fixtrs	1	
Total Rooms:	5	
Bath Style:	02	Average
Kitchen Style:	02	Modern

CONSTRUCTION DETAIL (CONTINUED)

Element	Cd	Description

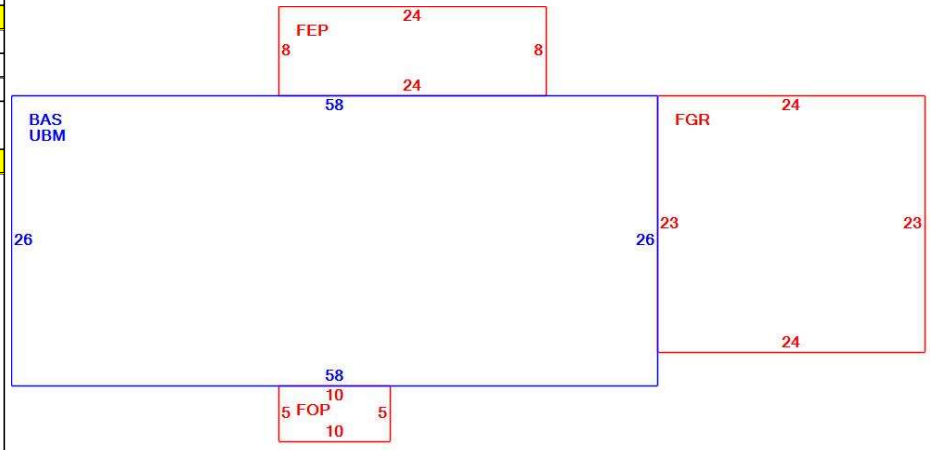
CONDO DATA

Parcel Id		C		Owne	
		B		S	

Adjust Type	Code	Description	Factor%
Condo Flr			
Condo Unit			

COST / MARKET VALUATION

Building Value New	250,828
Year Built	2016
Effective Year Built	2016
Depreciation Code	A
Remodel Rating	
Year Remodeled	
Depreciation %	4
Functional Obsol	
External Obsol	
Trend Factor	1
Condition	
Condition %	
Percent Good	96
RCNLD	240,800
Dep % Ovr	
Dep Ovr Comment	
Misc Imp Ovr	
Misc Imp Ovr Comment	
Cost to Cure Ovr	
Cost to Cure Ovr Comment	



OB - OUTBUILDING & YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)

Code	Description	L/B	Units	Unit Price	Yr Blt	Cond. Cd	% Gd	Grade	Grade Adj.	Appr. Value
SHD1	SHED FRAME	L	100	14.00	2020		30		0.00	400
WDS	WOODSTOVE	B	1	0.00			96		0.00	0

BUILDING SUB-AREA SUMMARY SECTION

Code	Description	Living Area	Floor Area	Eff Area	Unit Cost	Undeprec Value
BAS	First Floor	1,508	1,508	1,508	111.48	168,110
FEP	Porch, Enclosed	0	192	134	77.80	14,938
FGR	Garage	0	552	221	44.63	24,637
FOP	Porch, Open	0	50	10	22.30	1,115
UBM	Basement, Unfinished	0	1,508	377	27.87	42,028
	Ttl Gross Liv / Lease Area	1,508	3,810	2,250		250,828

ATTACHMENT 6

UNITED STATES POSTAL SERVICE®

DANIELSON WEST

Certificate of Mailing — Firm

Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here *Postmark with Date of Receipt.*
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	3	3	neopost 10/27/2021 US POSTAGE $002.99 ZIP 06103 041L12203937
	Postmaster, per *(name of receiving employee)*		OLD STATE HOUSE STATION 06103 OCT 27 2021 USPS

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Richard Ives, First Selectman Town of Brooklyn 4 Wolf Den Road Brooklyn, CT 06234				
2.	Jana Butts Roberson, Director of Community Development/Town Planner Town of Brooklyn ~~Clifford B. Green Memorial Center~~ ~~69 South Main Street, Suite 22~~ Brooklyn, CT 06234				
3.	Richard and Cynthia Perkins 159 Brown Road Brooklyn, CT 06234				
4.					
5.					
6.					